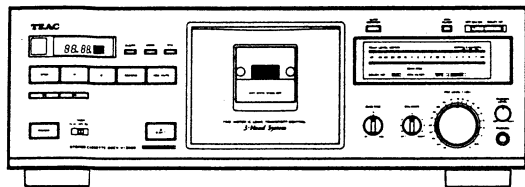


# TEAC®



TEAC -00335





## SERVICE MANUAL

# V-3000

## Stereo Cassette Deck

Remote Control Unit RC-393

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## 1 SPECIFICATION

## 仕 様

**Track System** 4-Track, 2-Channel Stereo  
**Heads** 3: 1 Erase, 1 Record and 1  
 Playback (Combination)

**Type of Tape** Cassette tape C-60 and C-90  
 (Philips type)

**Tape Speed** 4.8 cm/sec. (1-7/8 ips)

**Motors** 2: 1 DC Servo motor  
 (for capstan drive)  
 1 DC motor  
 (for reel drive)

**Wow and Flutter**  
 0.045 % (W. RMS)

**Frequency Response (Overall)** -20 dB  
 15 - 21,000 Hz  $\pm 3$  dB Metal Tape  
 15 - 20,000 Hz  $\pm 3$  dB CrO<sub>2</sub> Tape  
 15 - 18,000 Hz  $\pm 3$  dB Normal Tape

**Signal-to-Noise Ratio (Overall)**  
 60 dB (NR OFF 3% THD Level,  
 Weighted)  
 70 dB (Dolby B In, over 5 kHz),  
 80 dB (Dolby C In, over 1 kHz),

**Fast Winding Time** Approximately 85  
 seconds for C-60

**Inputs** Line: 60 mV, 50k ohms

**Outputs** Line: 0.44 V for load impedance  
 of 50k ohms or more

Headphones: 2 mW/8 ohms load

**Power Requirements** 120/220/240 V  
 AC, 50/60 Hz (General export  
 models)  
 120 V AC, 60 Hz (U.S.A./Canada)  
 220 V AC, 50 Hz (Europe)  
 240 V AC, 50 Hz (U.K./Australia)

**Power Consumption** 18 W

**Dimensions (W x H x D)**  
 435 x 149 x 355 mm  
 (17-1/8" x 5-7/8" x 14")

**Weight** 6.9 kg (15.3 lbs.)

**Standard Accessories**

Wireless Remote Control Unit  
 RC-393, Batteries (SUM-3, "AA",  
 "R6" type) x 2, Input-output con-  
 nection cords x 2

• Specifications were determined using metal  
 tape except as noted.

• Improvements may result in specifications  
 or features changing without notice.

トラック形式	4トラック2チャンネル・ステレオホニク方式
ヘッド構成	消去ヘッド×1, 録音×1・再生×1 コンビネーション・ヘッド
使用テープ	C-60, C-90タイプ カセット・テープ
テープ速度	4.8センチ
モーター	キャブスタン: DC サーボモーター×1 リール: DC モーター×1
ワウ・フラッター	0.045%(W.RMS), 0.08%(W.Peak EIAJ)
周波数特性 (総合)	15Hz~21,000Hz $\pm 3$ dB: メタル 15Hz~20,000Hz $\pm 3$ dB: クローム 15Hz~18,000Hz $\pm 3$ dB: ノーマル
総合S/N比	60dB(NR OFF, EIAJ) 70dB(ドルビーB NR IN 5kHz以上) 80dB(ドルビーC NR IN 1kHz以上)
早巻時間	約85秒(C-60テープ)
入力	ライン: 60mV(入力インピーダンス50k $\Omega$ 以上)
出力	ライン: 0.44V(負荷インピーダンス50k $\Omega$ 以上) ヘッドホン: 2mW/8 $\Omega$
電源	100V AC, 50/60Hz
消費電力	18W
外形寸法	435(W)×149(H)×355(D)mm
重量	6.9kg
付属品	入出力コード×2本, リモコンユニット(RC-393)×1本, 乾電池(単3)×2

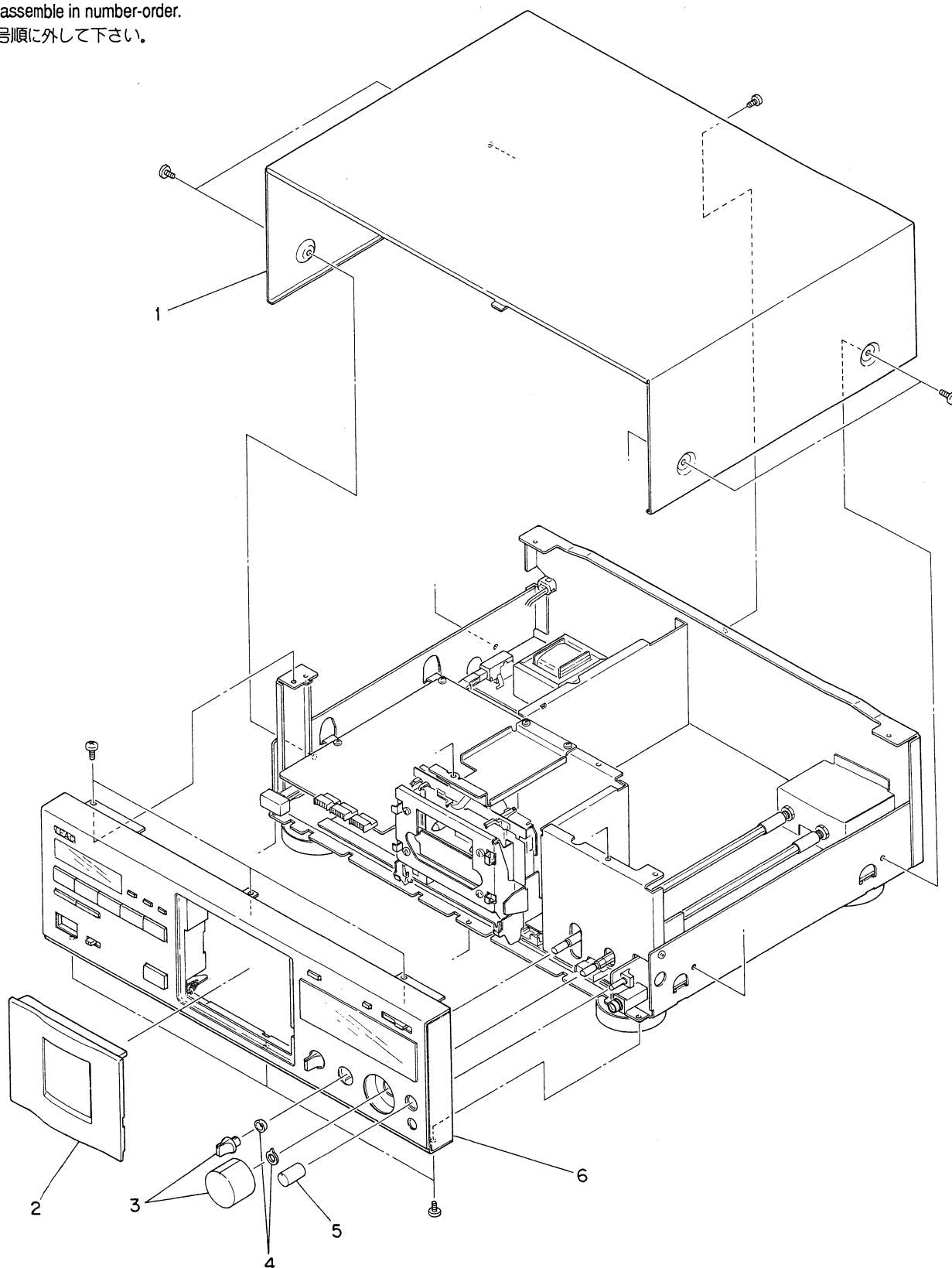
※この仕事は特に表示した項目を除き, 当社基準テープを使用して測定したものです。

※仕様及び外観は, 改善のため予告なく変更することがあります。

## 2 REMOVAL OF EXTERNAL COMPONENTS

外装部品の外し方

Disassemble in number-order.  
番号順に外して下さい。



### 3 PARTS LOCATION

部品配置図

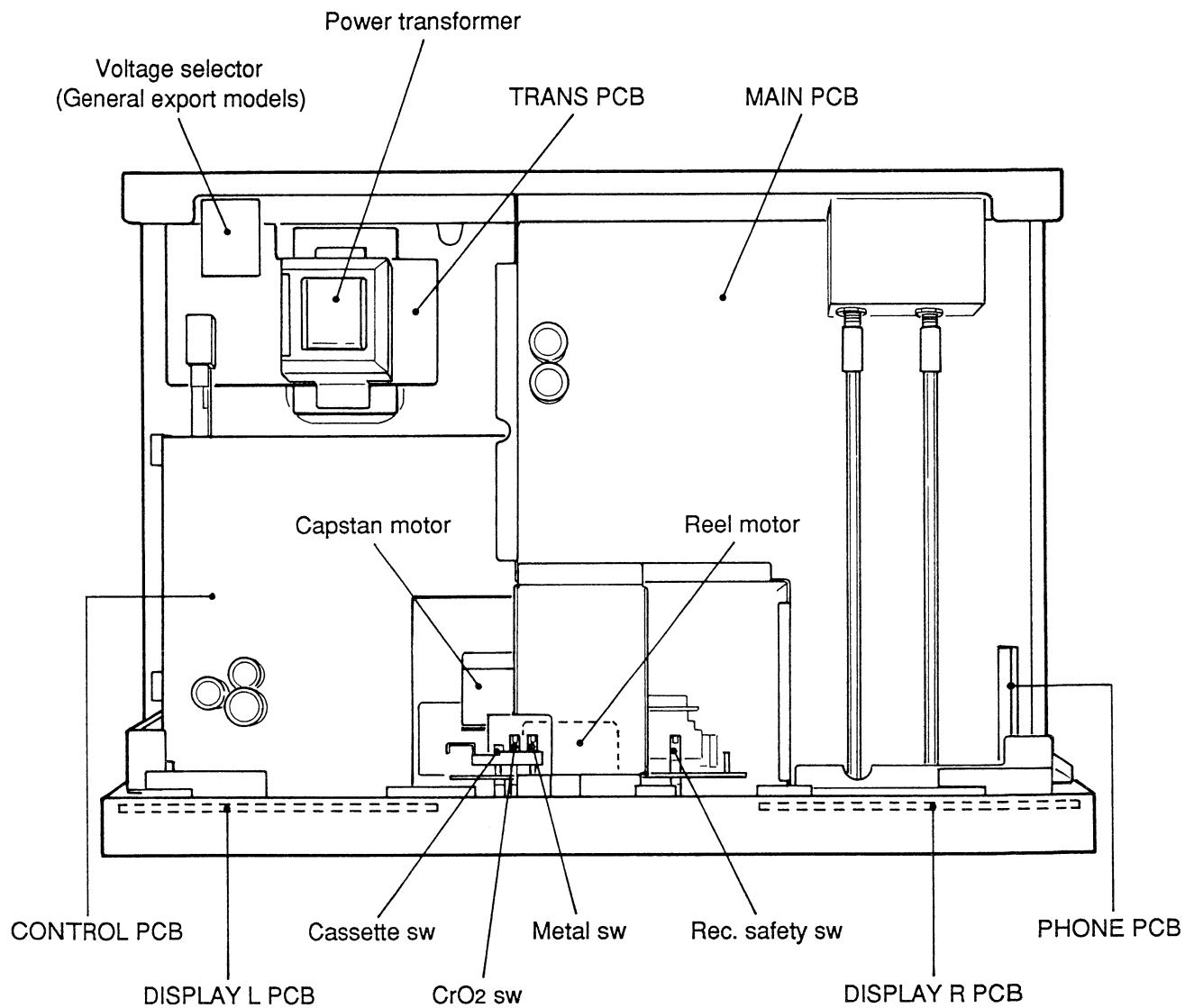


Fig. 3 Top view 上面図



## 4 MECHANICAL ADJUSTMENT AND CHECKS

### 機構部の調整と確認

#### 4-1 TAPE SPEED

1. Connect a frequency counter to the deck as shown in Fig. 4-1.
2. Simply press POWER switch to ON to rotate the motor, then continue the motor retain for approx. 1minute for warm-up.
3. AS soon as the warm-up finishes, load a TEAC MTT-111 test tape with a 3,000Hz test tone and play the beginning of the test tape.
4. Adjust the variable resistor (Fig. 4-2) to get the adjustment value of 3,000Hz to 3,010Hz
5. In play mode, check that the following figures are obtained at the beginning and at the end of the tape.  
Speed deviation :  $3,000\text{Hz} \pm 75\text{Hz}$   
Speed drifting : with • in 75Hz

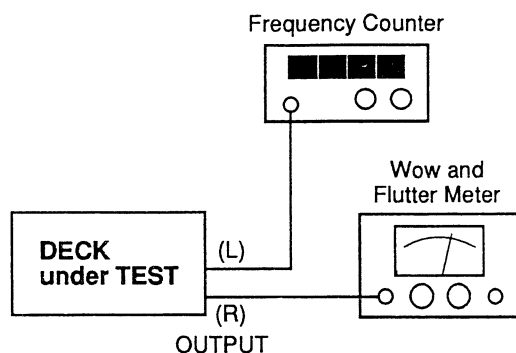


Fig. 4-1

#### 4-2 WOW AND FLUTTER (PLAYBACK METHOD)

Note : These measurements should made at the beginning, middle, and the end of the tape.

1. Connect a wow and flutter meter to the deck as shown in Fig. 4-1.
2. Load and play a TEAC MTT-111 test tape.
3. Check that the readings on the wow and flutter meter are as follows.  
Specifications : 0.12 % WRMS

#### 4-1 テープ・スピード

1. 図4-1のように周波数カウンターを接続する。
2. 電源を入れ、約1分間ウォーミングアップする。
3. テストテープ MTT-111 (3kHz) を巻始めの条件で再生する。
4. 周波数値が3,000~3,010Hzとなるよう、Fig. 4-2に示す調整VRを調整する。
5. 巻始めから巻終わりまで再生し、速度偏差および変動幅を確認する。  
速度偏差 :  $3,000\text{Hz} \pm 75\text{Hz}$   
変動幅 : 75Hz 以内

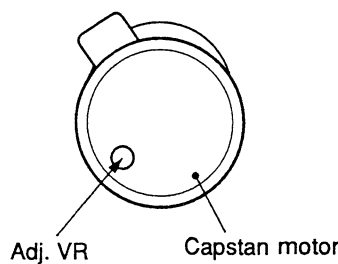


Fig. 4-2

#### 4-2 ワウ・フラッター (再生法)

注 : テープの巻初め、中間、巻終りで測定する。

1. 図4-1のようにワウ・フラッターメーターを接続する。
2. テストテープ MTT-111 を再生する。
3. ワウ・フラッター値が下の規格内に入ることを確認する。  
規格 : 0.12 % WRMS

## 4-3 REEL TORQUE

1. Load the cassette torque on the deck and read the pointer indication on the dial scale for each tape transport operation. The measured torque should be within the following specified values.

Specifications :

Take - up : 30~70g • cm  
(0.417~0.972 oz-inch)

Supply : 2.5~6g • cm  
(0.035~0.083 oz-inch)

F. F. /REW : 80~180g • cm  
(1.111~2.500 oz-inch)

## 4-3 リールトルク

1. カセット型トルクメーターによる測定値が下表の範囲内であることを確認する。

テイクアップトルク : 30~70g • cm

バックテンショントルク : 2.5~6g • cm

早送り/巻戻しトルク : 80~180g • cm

## 4-4 VOLTAGE CONVERSION

(General Export Models only)

1. ALWAYS DISCONNECT THE POWER LINE CORD BEFORE MAKING THESE ADJUSTMENTS !
2. Locate the voltage selector on the rear panel.
3. Using a require screwdriver, turn the selector until the numerals corresponding to the voltage requirements of your area appear.

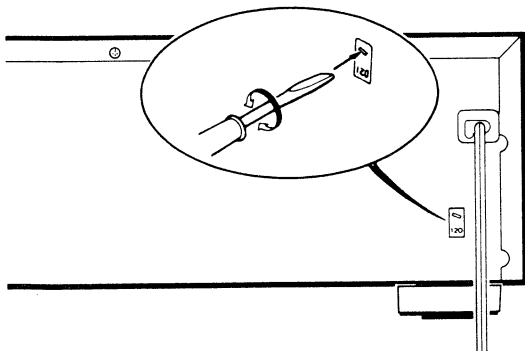


Fig.4-3

## 5 ELECTRICAL CHECKS AND ADJUSTMENTS

### アンプ部の調整と確認

#### 5-1 PRECAUTIONS

1. Before performing adjustments and checks clean and demagnetize the entire tape path.
2. Make sure the deck is properly set for the voltage in your locality.
3. In general, adjustments and checks are made in the order of L ch then R ch. Double REF. Nos. indicate L ch/R ch. (Example ; R51/R61)
4. 0 dB is referenced to 0.775V. If an AC voltmeter that references 0dB to 1V is used, appropriate compensation should be made.
5. The AC voltmeter used in the procedures must have an input impedance of 1M ohms or more.
6. Note the "Deck setting" at the top of each chart. The settings apply to all check for a specific chart unless explicitly stated otherwise.
7. Since this deck has an automatic tape selector, be sure to use test tapes that have tape position detecting holes.
8. Input terminals and measuring points at each step are the same as previous step, otherwise specified.

#### 5-1 注意

1. アンプ部の調整・確認の前に、テープ走行系の消磁と清掃を行ってください。
2. 特に指定のない限り、調整はL ch, R ch の順序で行ってください。  
なお、R51/R61 のように記されている回路番号は L ch/R ch を示します。
3. 0 dB = 0.775V
4. 測定に使用するレベル計の入力インピーダンスは 1M $\Omega$ 以上のものを使用してください。
5. 本機はテープセレクト自動検出機構になっていますので、テストテープは必ずテープポジション検出孔のあるものを使用してください。
6. 入力端子および測定箇所は各ステップにおいて特に明示されている場合を除き、直前のステップと同じです。

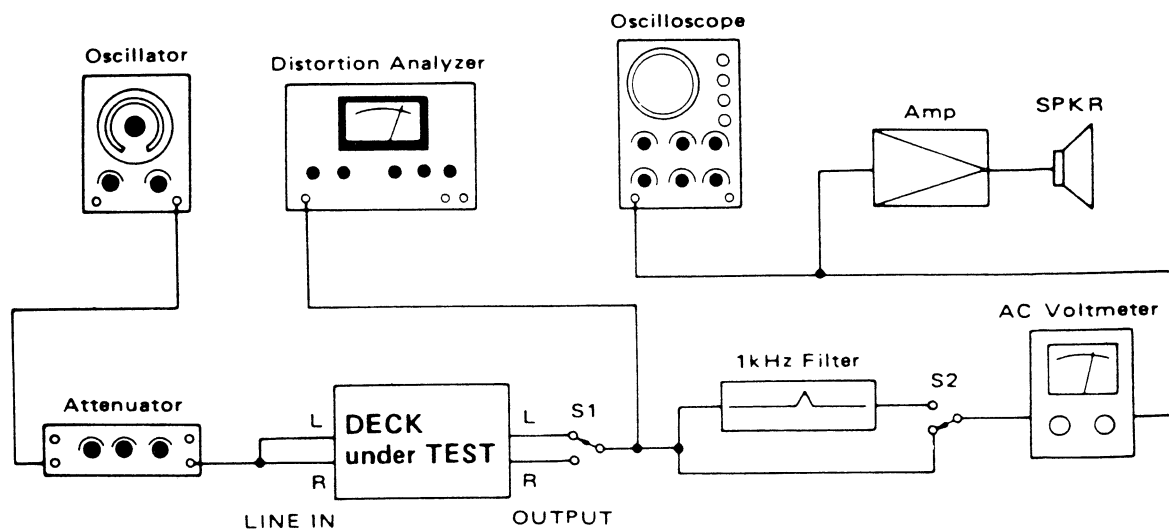


Fig. 5-1 Basic test setup 基本測定接続図

## 5 - 2 ADJUSTMENT LOCATIONS 調整箇所

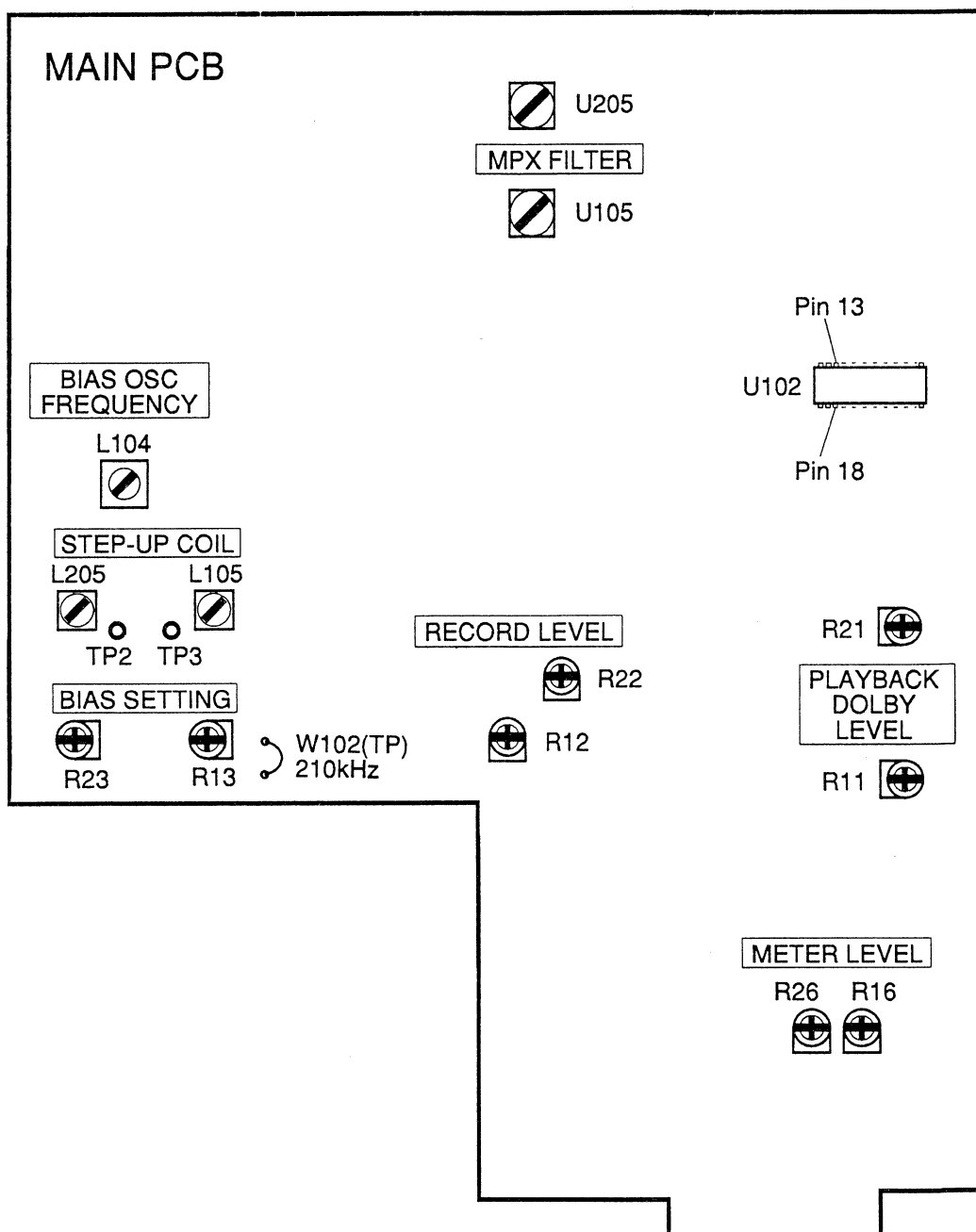


Fig.5-2 Adjustment points 調整箇所

## 5-3 PLAYBACK PERFORMANCE

## 再生

## Deck settings

Mode : PLAY  
 AUTO MONITOR SW : TAPE  
 DOLBY NR SW : OUT  
 MPX FILTER SW : OUT

## TEAC test tapes

MTT-150 : for Dolby level calibration  
 MTT-25702 : for playback frequency response check for NORMAL  
 MTT-35702 : for playback frequency response check for METAL and CrO<sub>2</sub>  
 MTT-5511 : For S/N check for NORMAL  
 MTT-15000 : For S/N check for DOLBY NR B,C

ITEM 調整項目	SETTING 設定	INPUT SIGNAL 入力信号	ADJUST (or CHECK) 調整箇所	MEASURING POINT. RESULT 測定箇所・調整値	REMARKS 備考
1. REC・PLAY head azimuth 録・再ヘッド アジマス	Connection : Fig. 5-3	MTT-25702 or MTT-35702 (10kHz)	Azimuth screws of R・P head 録・再ヘッドのアジ マス調整ネジ Fig. 5-4	OUTPUT (L/R) : Maximum output at L & R-ch's. L-R 各 ch 共 最大出力	
2. Playback DOLBY Level setting 再生ドルビー レベルセット	Connection : Fig. 5-8	MTT-150	MAIN PCB R11/R21	U102 ; pin13/pin18 : -6dB (388mV)	
3. Playback output level 再生出力レ ベル	Connection : Fig. 5-1	MTT-150	Check	OUTPUT (L/R) : -2dB $\pm$ 1dB (548mV~690mV) Phase : with 45° 位相 : 45° 以内	Fig. 5-5
4. Meter level setting メーター・レ ベル	Same as above 同上	MTT-150	MAIN PCB R16/R26	PEAK LEVEL meter (L/R) : -1dB lit ( <input type="checkbox"/> mark) -1dB点 ( <input type="checkbox"/> マーク)	
5. Playback Frequency response 再生周波数 特性	Same as above 同上	MTT-25702 MTT-35702	Check	OUTPUT (L/R) : Standard 規格	Fig. 5-6
6. Playback S/N ratio 再生S/N比	Same as above 同上	MTT-5511 MTT-5571  Playback the leader tape portion. リーダーテープ部を 再生	Check	OUTPUT (L/R) : S/N 45dB min. (120u) 46dB min. (70u)	
	Same as above 同上 DOLBY NR : OFF→B→C	MTT-15000	Check	OUTPUT (L/R) Amount of variation in S/N with respect to the S/N value when the MT-15000 signal is played back with DOLBY NR OFF. MTT-15000をDOLBY NR OFF 再生 した時のS/N値に対するS/N変化量 DOLBY NR B : 8.5dB or more DOLBY NR C : 17dB or more  -2dB (615 mV) is reference level 基準レベルは-2dB (615 mV)	

5-4 MONITOR PERFORMANCE

モニター系

Deck settings

Mode

: RECORD/PAUSE

AUTO MONITOR sw.

: SOURCE

REC LEVEL control

: Maximum

DOLBY NR sw.

OUT

BALANCE control

: 0(center)position

MPX FILTER sw.

OUT

ITEM 調整項目	SETTING 設定	INPUT SIGNAL 入力信号	ADJUST (or CHECK) 調整個所	MEASURING POINT. RESULT 測定個所・調整値	REMARKS 備考
7. Min. Line input level ライン最小 入力レベル	Connection : Fig. 5-1	LINE IN (L/R) : 400Hz/-19dB (86.9mV)	Check	OUTPUT (L/R) : -2dB ± 3dB (436mV~869mV)	
8. Specified Line input level Line 規定入 力レベル	Connection : Fig. 5-1	LINE IN (L/R) : 400HZ/-9dB (275mV)	REC LEVEL ( & BALANCE ) control.	OUTPUT (L/R) : -2dB (615mV)	
		* Adjust the balance between the left and right channels by BALANCE control. L-R chのレベル差は、BALANCEつまみにて修正。 * After adjusting do not move the RECLEVEL & BALANCE control. (Specific position) 調整後はREC LEVEL & BALANCEつまみを動かさないこと。			
9. Meter level メータレベ ル	Connection : Fig. 5-1	LINE IN (L/R) : 400HZ/-9dB (275mV)	Check	PEAK LEVEL meter (L/R) : -1dB lit ; ( <input type="checkbox"/> ) mark	
10.MPX-F.coil MPX-F.コイル	Connection : Fig. 5-1 MPX FILTER sw. -on	LINE IN (L/R) : 19kHz/-9dB (275mV)	U105/U205	OUTPUT (L/R) : min.	
11.PHONES output level PHONES 出力レベル	Connection : Fig. 5-7 PHONES LEVEL control : max.	LINE IN (L/R) : 400HZ/-9dB (275mV)	Check	PHONES : At each channel 各チャンネルで -16dB ± 3dB (86.9mV~173mV)	8 Ω load

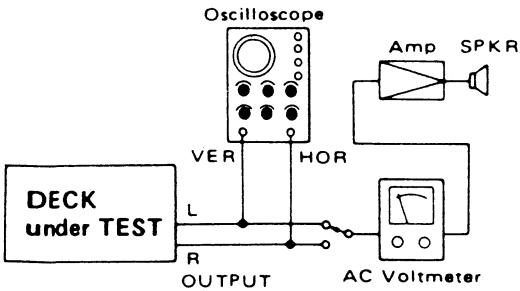


Fig. 5-3 Test setup for azimuth check  
位相測定接続図

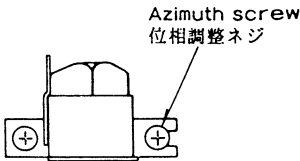


Fig. 5-4

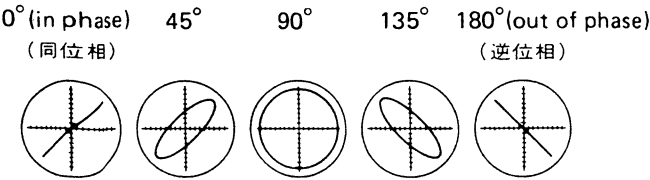


Fig. 5-5 Confirming phase relationship 位相

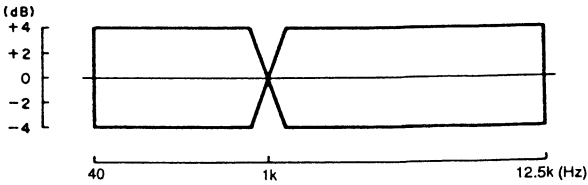


Fig. 5-6 Playback frequency response  
再生周波数特性

## 5-5 RECORDING PERFORMANCE

## 録音系

## Deck Settings

Mode : REC/PLAY

REC LEVEL control : Specified position 規定位置

BALANCE control : Specified position 規定位置

BIAS FINE control : "0" position

DOLBY NR sw. : OUT

MPX FILTER sw. : OUT

AUTO MONITOR sw. : TAPE

TEAC recording test tapes

MTT-5571 : For METAL

MTT-5561 : For CrO2

MTT-5511 : For NORMAL

ITEM 調整項目	SETTING 設定	INPUT SIGNAL 入力信号	ADJUST (or CHECK) 調整箇所	MEASURING POINT. RESULT 測定箇所・調整値	REMARKS 備考
12. Bias osc. frequency バイアス 発振周波数	Connection : Fig. 5-8 Tape : MTT-5571 Mode : REC/PLAY	No signal	L104	W102 : 210kHz $\pm$ 5kHz	
13. Step up coil ステップア ップコイル	Same as above 同上	No signal	L105/L205	TP 2/TP 3 : Minimum -DC voltage -DC 電圧最小値	
			* Set to the maximum negative voltage 電圧計をマイナス電圧の最大値にセットする。		
14. Record bias バイアス セット	Connection : Fig. 5-1 Tape : MTT-5511 BIAS FINE control : 0 position	LINE IN (L/R) : 400Hz & 10kHz alternately/ 交互信号/ -42dB (6.15mV)	R13/R23	OUTPUT (L/R) : Equal output level (record and playback) between 400Hz and 10kHz. 400Hzと10kHzの録再出力が等しくなること。	
15. Record level 録音レベル	Connection : Fig. 5-1 Tape : MTT-5511	LINE IN (L/R) : 400Hz/-12dB (195mV)	R12/R22	OUTPUT (L/R) : Output level (record and playback) 録再出力 -5dB (436mV)	
	Connection : Fig. 5-1 Tape : MTT-5571、 MTT-5561 DOLBY NR sw. : IN/OUT, B/C		Check	OUTPUT (L/R) : Output level (record and playback) 録再出力 -5 $\pm$ 2dB (NR OUT) -5 $\pm$ 3dB (NR IN)	
16. Total harmonic distortion 総合歪率	Connection : Fig. 5-1 Tape : MTT-5571 Tape : MTT-5561 Tape : MTT-5511	LINE IN (L/R) : 400Hz/-12dB (195mV)	Check	OUTPUT (L/R) : 2.0 % or less (以下) (NORMAL) 2.5 % or less (以下) (METAL, CrO2)	
17. Overall frequency response 録音周波 数特性	Connection : Fig. 5-1 Tape : MTT-5571 Tape : MTT-5561 Tape : MTT-5511	LINE IN (L/R) : 63Hz~12.5kHz/ -42dB (6.15mV)	Check	OUTPUT (L/R) Standard Fig. 5-9	

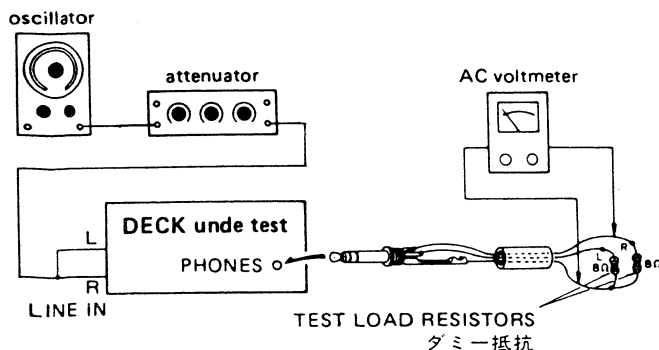
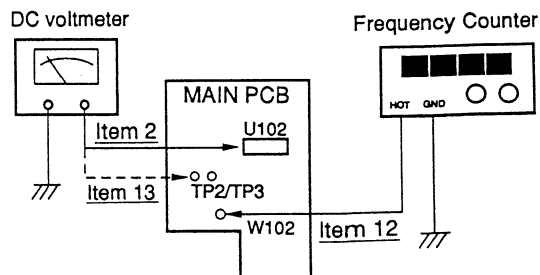
Fig. 5-7 Test setup for PHONES check  
ホーン出力測定接続図

Fig. 5-8 Test setup 調整用接続図

ITEM 調整項目	SETTING 設定	INPUT SIGNAL 入力信号	ADJUST (or CHECK) 調整箇所	MEASURING POINT. RESULT 測定箇所・調整値	REMARKS 備考
18. Overall S/N ratio 総合S/N比	Connection : Fig. 5-1 Tape : MTT-5571 Tape : MTT-5561 Tape : MTT-5511	No signal 無信号	Check	OUTPUT (L/R) : METALL, CrO2 45dB min. NORMAL 44dB min. 400Hz/-2dB (615mV) is the reference level. 基準レベルは400Hz/-2dB (615mV)	
19. Erase efficiency 消去効果	Connection : Fig. 5-1 (but engage 1kHz filter) (1kHz フィルター使用) Tape : MTT-5571	LINE IN (L/R) : 1kHz/+1dB (0.869V)	Check	OUTPUT (L/R) : 65dB min. ratio (以上)	
	Record a 1 kHz signal. Erase the latter half of the recording. Rewind and play to find the difference between the 1 kHz portion and the erased portion. 録音部分を再生した時のレベルを基準レベルとし、録音部分を消去した時の再生レベルとの差を測定。				
20. REC MUTE function REC MUTE 効果	Same as above 同上	Same as above 同上	Check	OUTPUT (L/R) : 65dB min. ratio	
	Record a 1 kHz signal. Push REC MUTE button midway. Rewind and play to find the difference between the 1 kHz portion and the "rec mute" portion. 1 kHz 信号を録音し、途中でREC MUTE ボタンを押して無信号録音部分を作る。このテープを再生し、1 kHz 部分と無信号部分との出力レベル差を測定。				
21. Channel separation チャンネル セパレーション	Same as above 同上	LINE IN : L ch 1kHz/ -9dB (275mV) R ch No signal 無信号	Check	OUTPUT (R) : 30dB min. ratio	
	Set the deck to record mode. rewind and play to find the difference between the 1 kHz recorded portion (L ch) and "no signal" portion (R ch). 録音後、再生して1kHz録音部分 (L ch) と無信号録音部分 (R ch) との出力レベル差を測定。				
	Change the above connection and check reverse operation also. L ch と R ch を入れ替えてた場合についてもチェックすること。				
22. Adjacent track crosstalk トラック間 クロストーク	Connection : Fig. 5-1 but not connect LINE (L) and output (L) L ch の入出力の接続不要	LINE IN : L ch No signal 無信号 R ch 125kHz/ -9dB (275mV)	Check	OUTPUT (R) : 40dB min. ratio	
	Record a 125Hz signal on R ch track and note output level. Invert tape and play R ch track. Check leakage level against the output reference of previously recorded portion. R ch トラックに125Hz信号を録音し、その再生出力を基準レベルとする。次にテープを反転し、再生した時のR ch 出力レベルとの差を測定する。				
23. BIAS FINE range BIAS FINE 可変幅	Connection : Fig. 5-1 Tape : MTT-5511 Mode : REC/PLAY	LINE IN (L/R) : 10kHz/-42dB (6015mV)	Turn the BIAS FINE control BIAS FINE つま みを回す	OUTPUT (L/R) : Range ; 5dB min. (以上)	

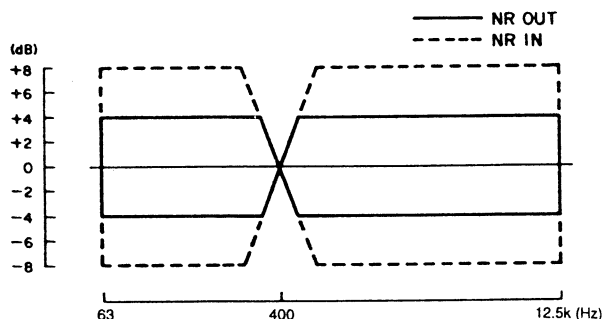
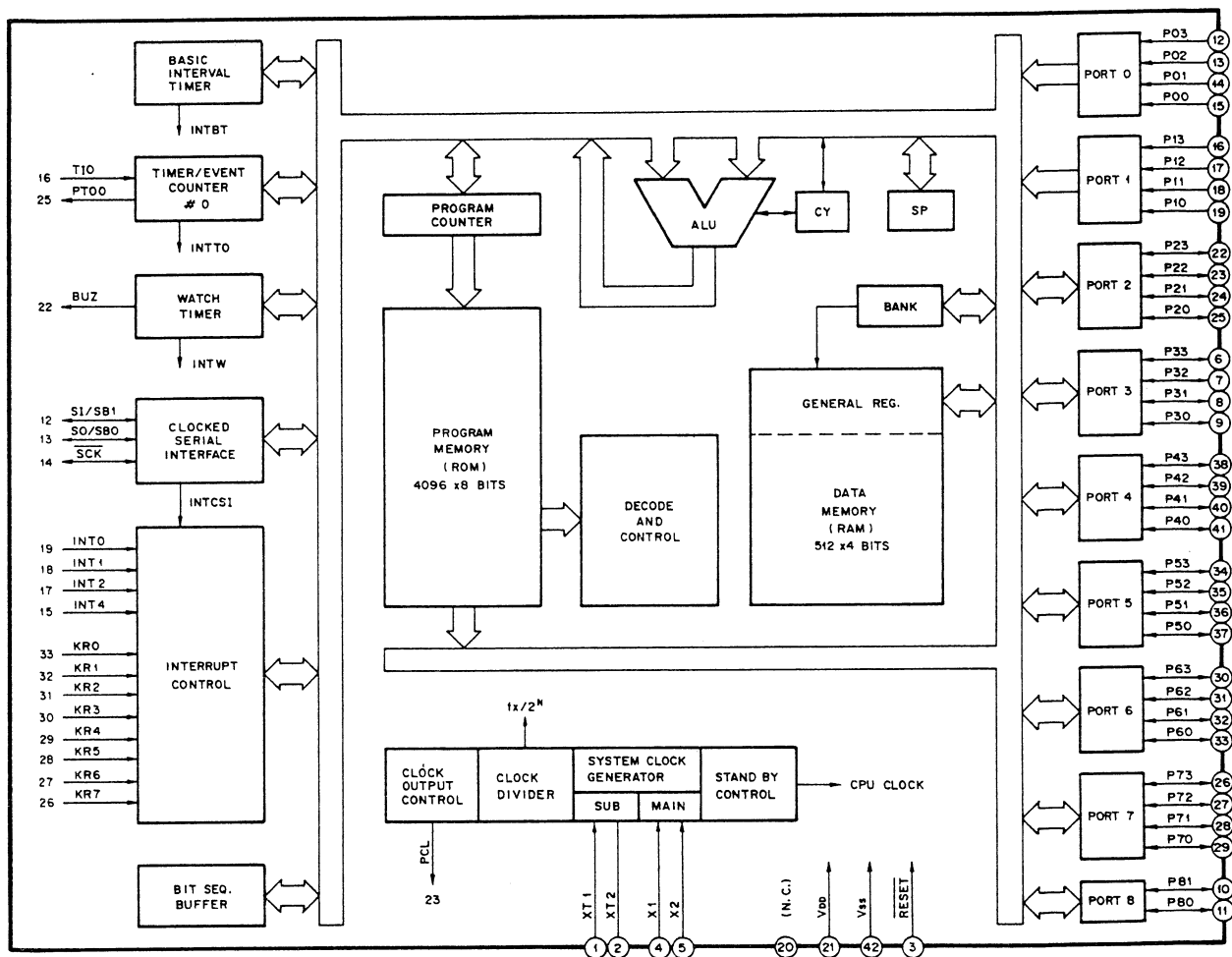


Fig. 5-9 Overall frequency response  
録再周波数特性

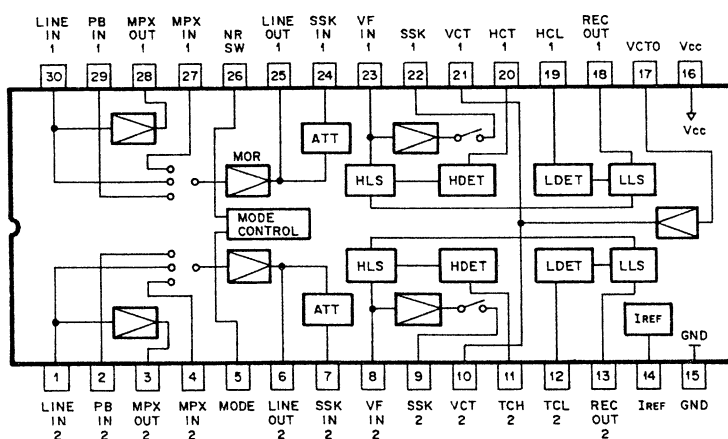


## 6 IC BLOCK DIAGRAM

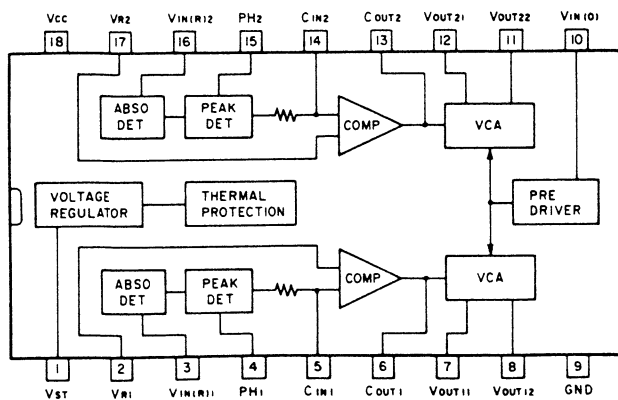
IC ブロック・ダイアグラム

 $\mu$ PD75004CW-074

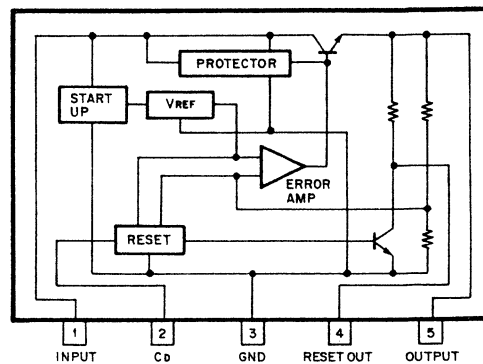
## CXA1330S



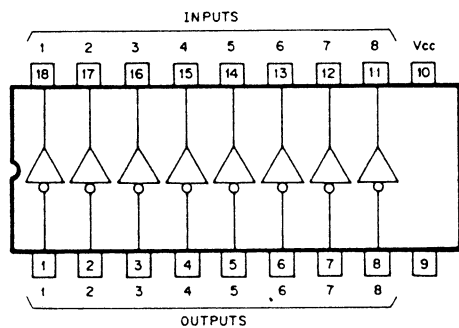
μPC1297CA



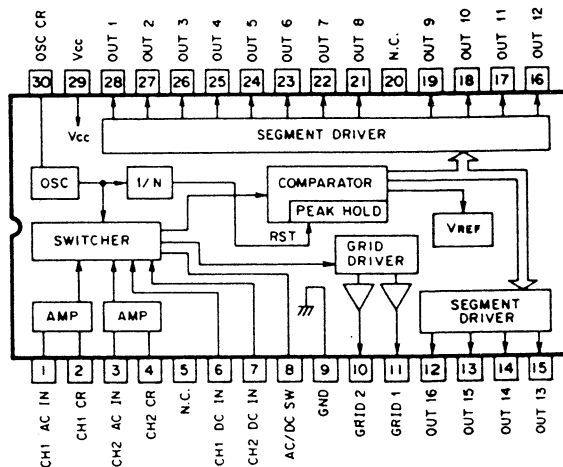
L78MR05



LB1240



BA6800AS



## PARTS LISTS SECTION

### NOTES

As regards the resistors and capacitors, refer to the circuit diagrams and the PCB ass'y drawing contained in this manual.

- Parts marked with\* require longer delivery time.
- $\triangle$  parts marked with this sign are safety critical components.  
They must always be replaced with identical component-refer to the TEAC parts List and ensure exact replacement.
- PC boards shown viewed from parts side.

### 注意

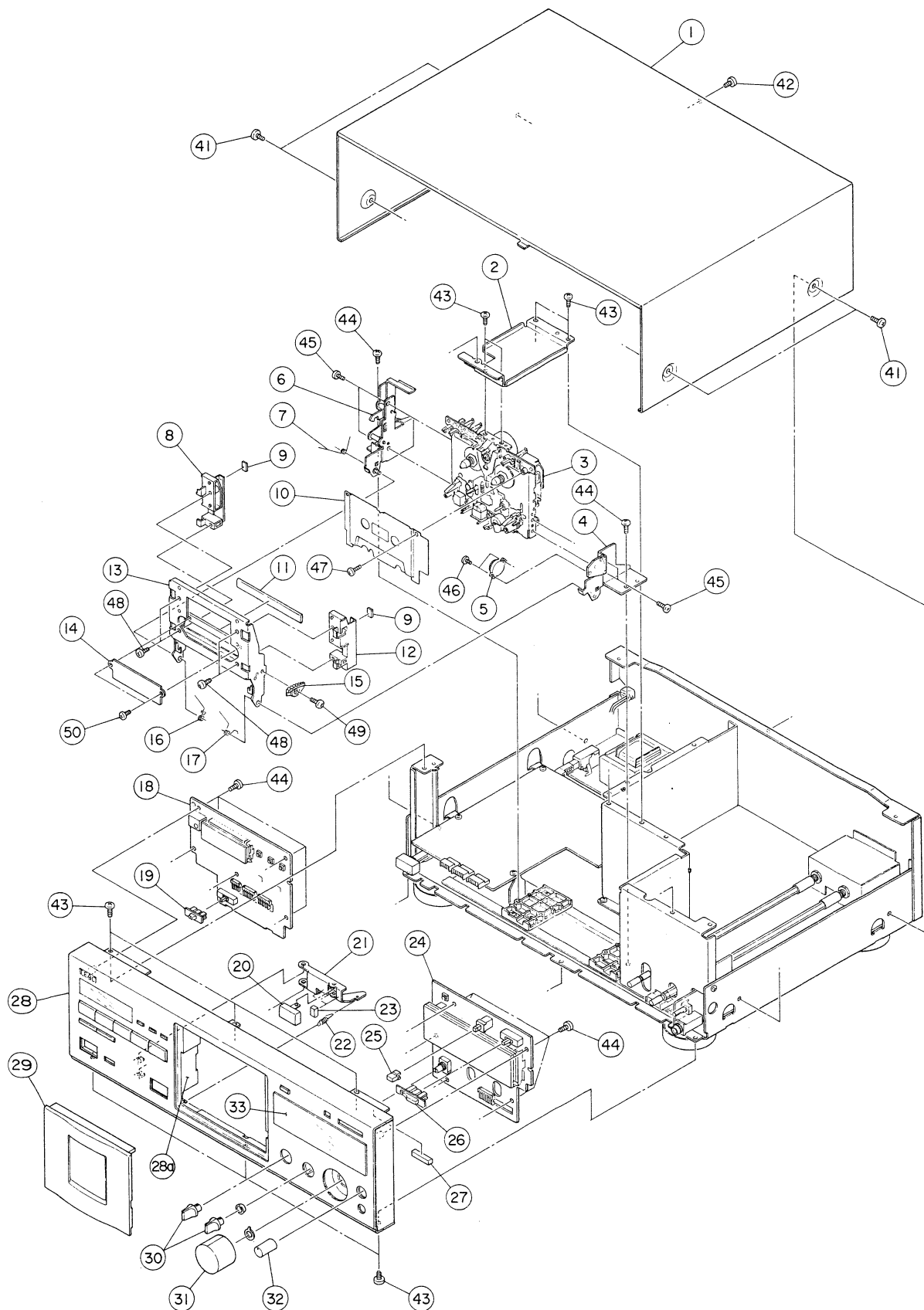
標準の抵抗、コンデンサーは省略してあります。回路図及び基板図を参照してください。

- ＊印の部品は納期が若干かかります。あらかじめご了承ください。
- $\triangle$ 印は安全規格重要部品です。交換するときは必ずティアック指定の部品を使用してください。
- プリント基板図は部品面が示されています。

# 7 EXPLODED VIEWS AND PARTS LIST

分解図とパーツ・リスト

## EXPLODED VIEW -1



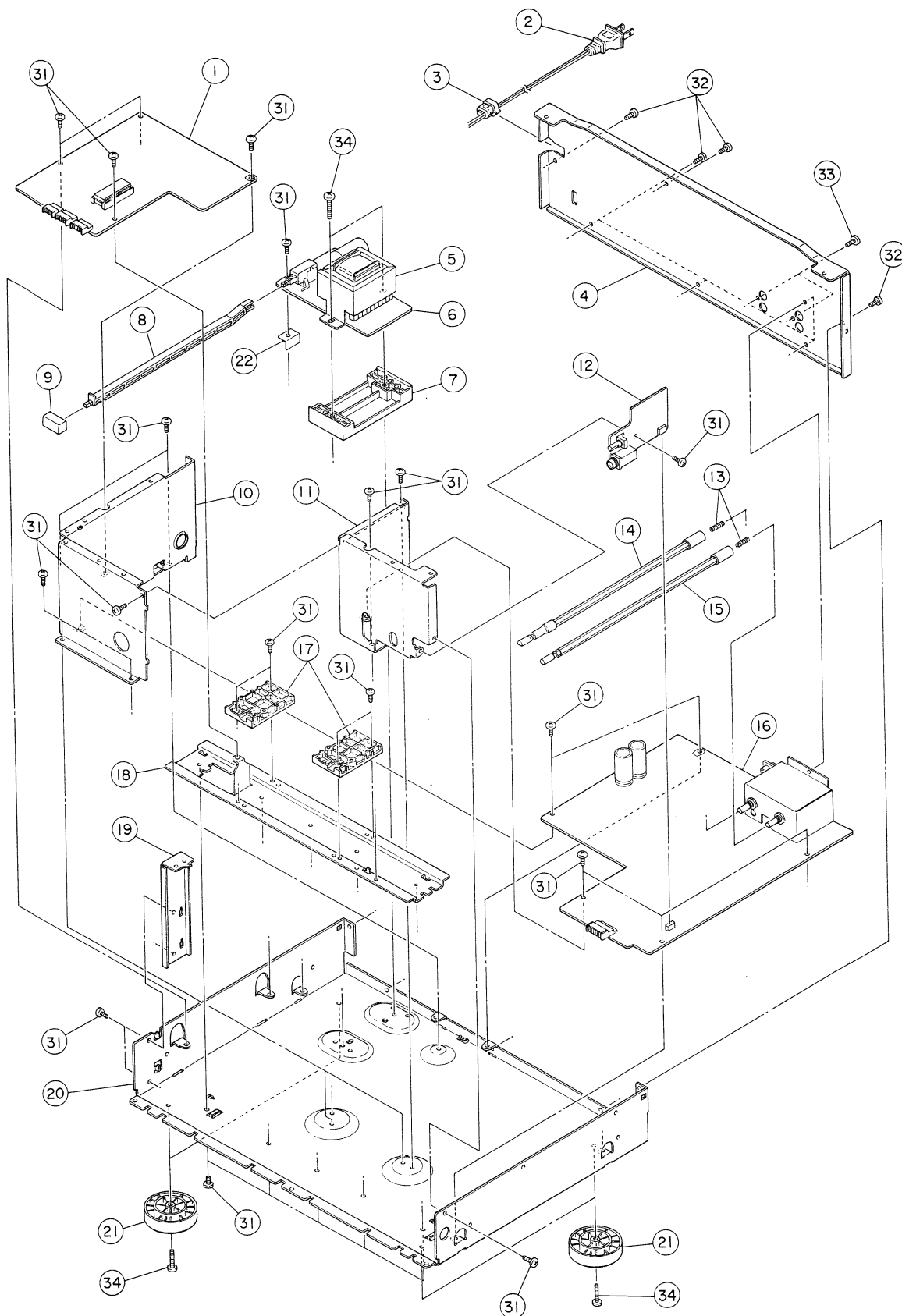
## EXPLODED VIEW-I

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
I- 1	*5801405800	BONNET(1)	
I- 2	*5801409200	PLATE,MECHA HOLD	
I- 3	*5761823600	CASSETTE MECHA (3HD) CMAY5Z249	
I- 4	*5801415900	DAMPER BRACKET ASSY	
I- 5	*5800620500	DAMPER ASSY	
I- 6	5801416100	EJECT ASSY	
I- 7	*5801411000	HOLDER IP SPRING	
I- 8	*5801413000	CASSETTE GUIDE(L)	
I- 9	*5801415700	CUSHION T2	
I-10	*5801412600	PLATE	
I-11	*5801410400	CUSHION T3.2 ANTI-STATIC	
I-12	*5801413100	CASSETTE GUIDE(R)	
I-13	*5801416000	HOLDER ASSY	
I-14	*5801410700	PLATE LID (1)	
I-15	*5801415600	HOLDER GEAR	
I-16	*5801415400	SPRING(L),STABILIZER	
I-17	*5801415500	SPRING(R),STABILIZER	
I-18	*5200317200	DISPLAY L PCB ASSY	Ref. pages 23 & 26
I-19	5801407700	TIMER KNOB	
I-20	5801409000	BUTTON(E)	
I-21	*5801408900	ARM,EJECT BUTTON	
I-22	*5801409100	SPRING,BUTTON ARM	
I-23	*5801440000	BUTTON CUSHION	
I-24	*5200317300	DISPLAY R PCB ASSY	Ref. pages 23 & 26
I-25	5801407500	POSH BUTTON	
I-26	5801407900	NR KNOB	
I-27	*5801434100	PCB CUSHION	
I-28	5801403000	FRONT PANEL(3)ASSY	
I-28a	5772922200	FRONT ESCUTCHEON ASSY	
	5801403801	OPERATION BUTTON	
I-29	5801416901	LID ASSY (3)	
I-30	5801409300	KNOB (PAN)	
I-31	5801411700	KNOB ASSY (B)	
I-32	5801411200	KNOB(B-B)	
I-33	*5801406100	METER COVER	
I-41	*5800612400	SCREW,M3X8 BLK	
I-42	*5783693008	SCREW BIND S TITE M3X8 (BLK NI)	
I-43	*5783033006	SCREW,BIND S-TITE M3X6	
I-44	*5783603008	SCREW,BIND P-TITE M3X8	
I-45	*5783003004	SCREW PAN S TITE M3X4	
I-46	*5783012004	SCREW,PAN B TITE M2X4	
I-47	*5783542612	SCREW,BIND M2.6X12 NI BLK	
I-48	*5783542608	SCREW BIND P TITE M2.6X8 BLK NI	
I-49	*5783552604	SCREW PAN B TITE M2.6X4 (BLK NI)	
I-50	*5780022603	SCREW BIND M2.6X3 (BLK NI)	

[J]:JAPAN [US]:U.S.A. [C]:CANADA [GE]:GENERAL EXPORT  
[E]:EUROPE [UK]:U.K. [A]:AUSTRALIA

Parts marked with \*require longer delivery time.

## EXPLODED VIEW -2



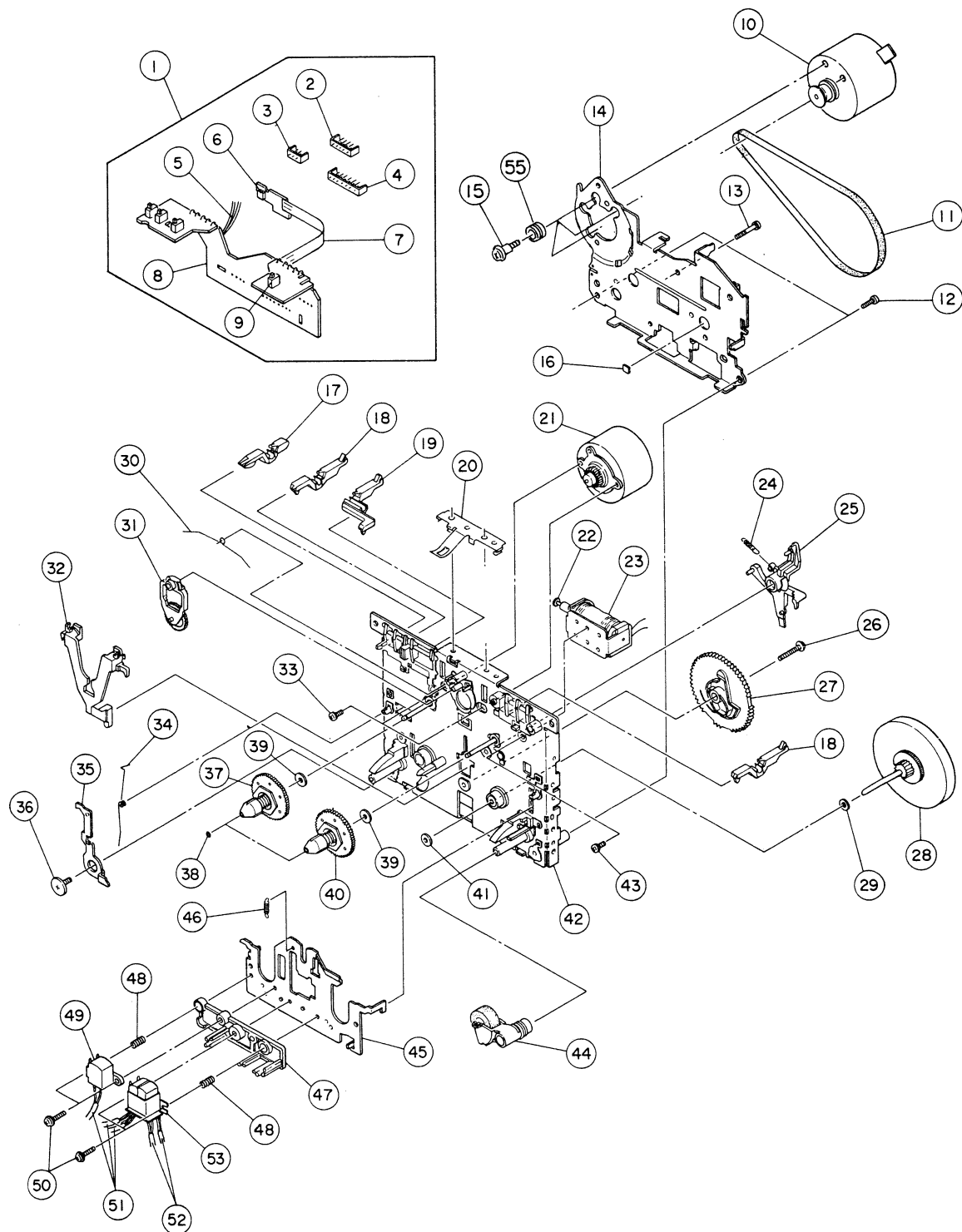
## EXPLODED VIEW-2

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
2- 1	*5200317100	CONTROL PCB ASSY	Ref. pages 24 & 26
2- 2	△ 5350015600	CORD,AC [J]	
	△ 5350010700	CORD,AC UL SPT-2 [US,C]	
	△ 5350010800	CORD,AC UL SPT-1 [GE]	
	△ 5350011700	CORD,AC CEE CLASS-2 [E]	
	△ 5128047000	CORD,AC [UK]	
	△ 5350008300	CORD,AC SAA 2-LEAD [A]	
2- 3	*5317003400	BUSHINB 2271	
2- 4	*5801405600	REAR PANEL(C) [J,US,C,E,UK,A]	
	*5801405700	REAR PANEL(D) [GE]	
2- 5	△*5320060000	TRANSFORMER,POWER	Ref. pages 24 & 27
2- 6	*5200317500	TRANS PCB ASSY [J]	Ref. pages 24 & 27
	*5200317510	TRANS PCB ASSY [US,C]	Ref. pages 24 & 27
	*5200317520	TRANS PCB ASSY [GE]	Ref. pages 24 & 27
	*5200317530	TRANS PCB ASSY [E]	Ref. pages 24 & 27
	*5200317540	TRANS PCB ASSY [UK]	Ref. pages 24 & 27
	*5200317550	TRANS PCB ASSY [A]	Ref. pages 24 & 27
2- 7	*5801406000	TRANS BASE	
2- 8	5801406200	ROD,JOINT(P)	
2- 9	5801406800	POWER BUTTON	
2-10		CENTER CHASSIS(B)	
2-11		CENTER CHASSIS(A)	
2-12	*5200316900	PHONE PCB ASSY	Ref. pages 22 & 25
2-13	*5801362200	SPRING,EARTH(2)	
2-14	5801434000	SHAFT ASSY (3)	
2-15	5801412001	SHAFT ASSY (1)	Ref. pages 22 & 25
2-16	*5200316800	MAIN PCB ASSY.	
2-17	*5801406500	MECHA BASE(B)	
2-18	*5801405100	CHASSIS ANGLE	
2-19	*5801406700	PANEL ANGLE	
2-20		MAIN CHASSIS	
2-21	*5801414900	FOOT ASSY (56)	
2-22	*5801435000	SHEET,INSULATOR	
2-31	*5783033006	SCREW,BIND S-TITE M3X6	
2-32	*5783693006	SCREW,BIND S TITE M3X6 (BLK NI)	
2-33	*5783543008	SCREW,BIND PT M3X8 NI BLK	
2-34	*5783034020	SCREW,BIND S TITE(4X20)	

[J]:JAPAN [US]:U.S.A. [C]:CANADA [GE]:GENERAL EXPORT  
[E]:EUROPE [UK]:U.K. [A]:AUSTRALIA

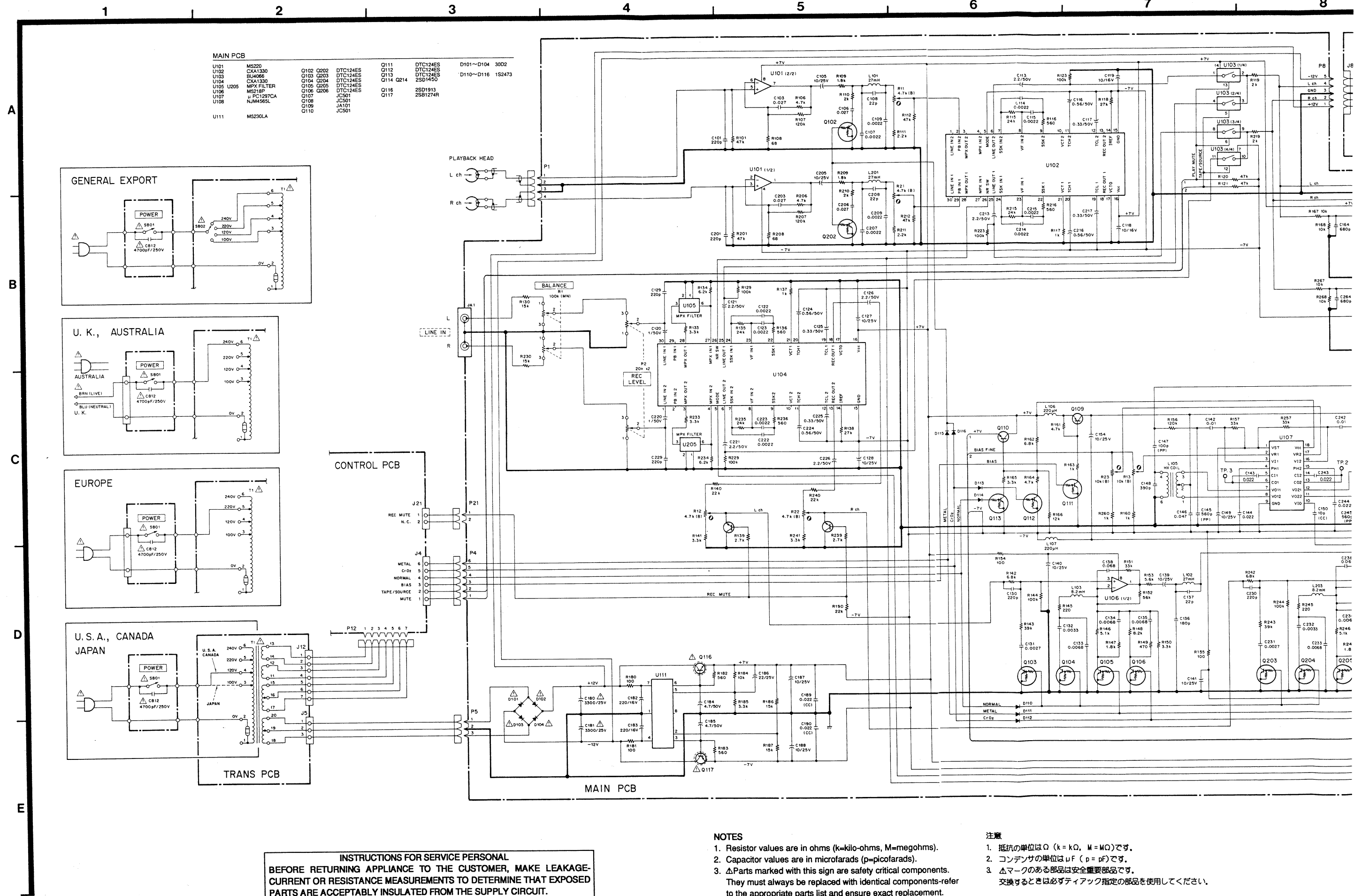
Parts marked with \*require longer delivery time.

EXPLODED VIEW -3





# TEAC SCHEMATIC DIAGRAM V-3000

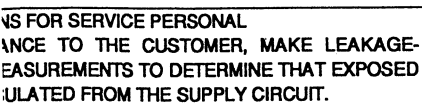


## NOTES

1. Resistor values are in ohms (k=kilo-ohms, M=megohms).
2. Capacitor values are in microfarads (p=picofarads).
3. △Parts marked with this sign are safety critical components. They must always be replaced with identical components-refers to the appropriate parts list and ensure exact replacement.

## 注意

1. 抵抗の単位はΩ (k=kΩ, M=MΩ)です。
2. コンデンサの単位はμF (p=pF)です。
3. △マークのある部品は安全重要部品です。交換するときは必ずテック指定の部品を使用してください。



## NOTES

1. Resistor values are in ohms (k=kilo-ohms, M=megohms).
2. Capacitor values are in microfarads (p=picofarads).
3.  $\Delta$  Parts marked with this sign are safety critical components.  
They must always be replaced with identical components-refer to the appropriate parts list and ensure exact replacement.

2. Capacitor values are in microfarads (p=picofarads).

3.  $\Delta$ Parts marked with this sign are safety critical components.

They must always be replaced with identical components-refer to the appropriate parts list and ensure exact replacement.

**注意**

1. 抵抗の単位はΩ (k = kΩ, M = MΩ)です。
2. コンデンサの単位はμF (p = pF)です。
3. △マークのある部品は安全重要部品です。  
交換するときは必ずティアック指定の部品を使用してください。

2. コンデンサの単位は $\mu\text{F}$  ( $\mu = \text{pF}$ )です.

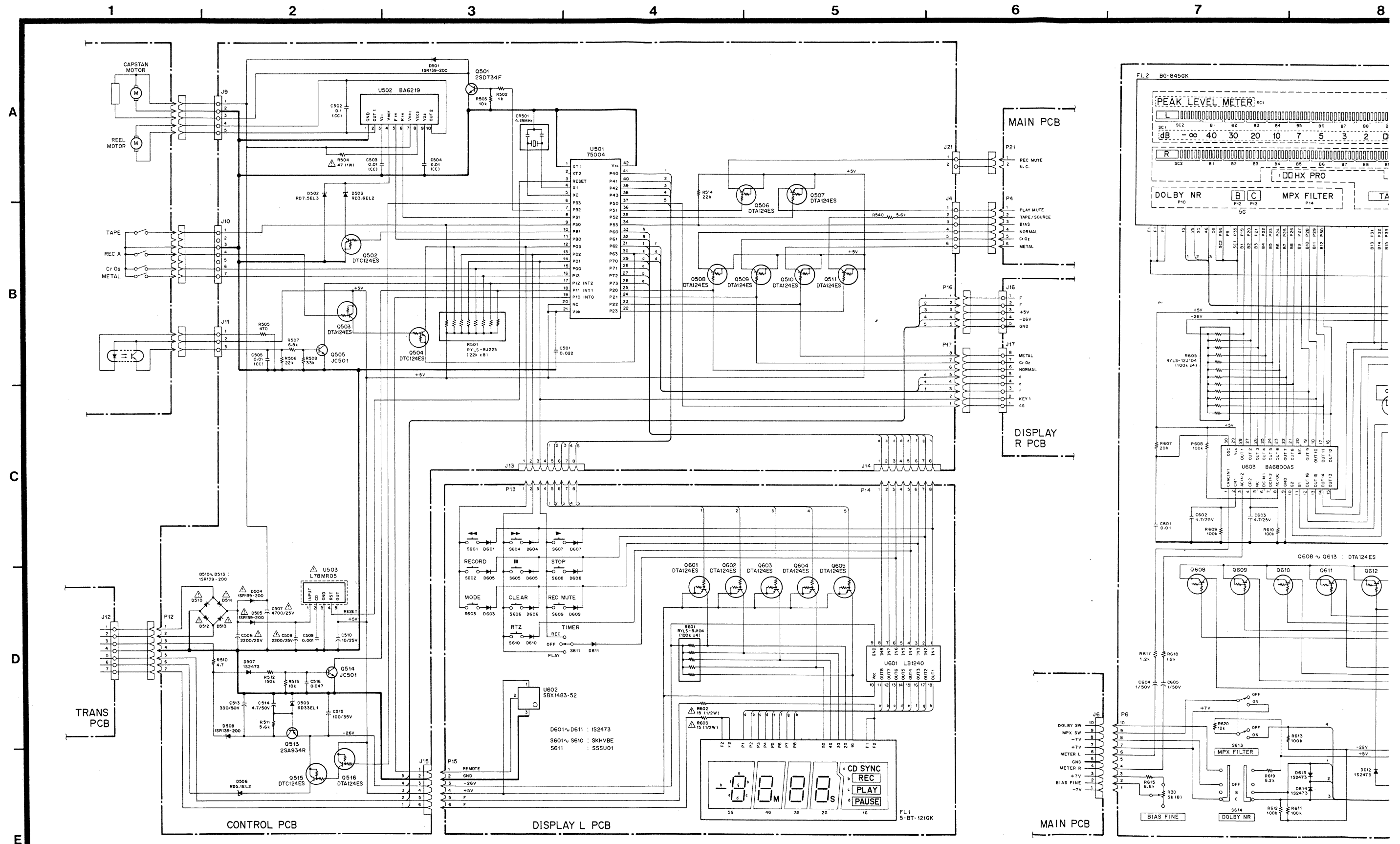
3. △マークのある部品は安全重要部品です.

交換するときは必ずティアック指定の部品を使用してください。

## Stereo Cassette Deck

# V-3000

2nd Issue ; December 1990

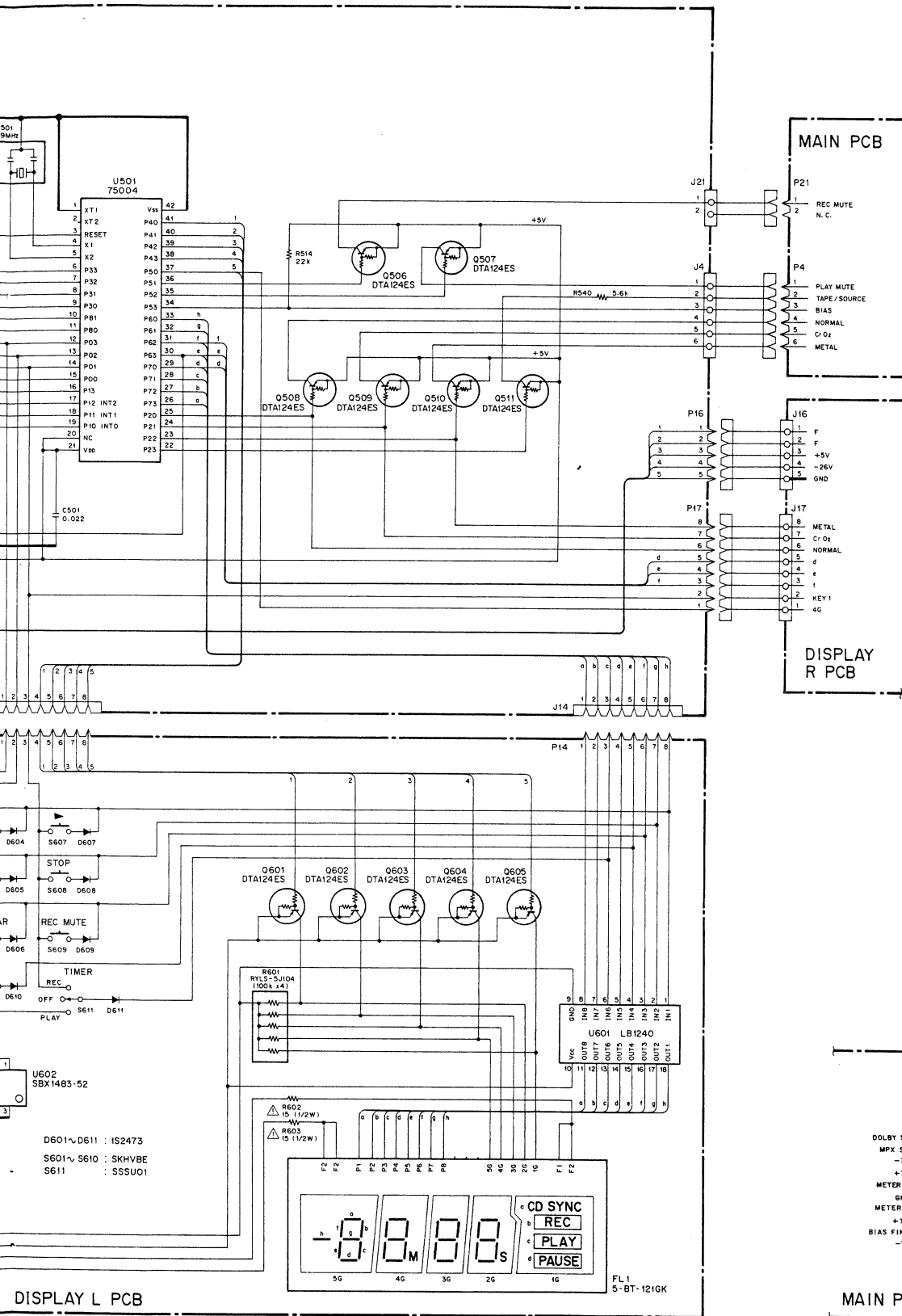


## NOTES

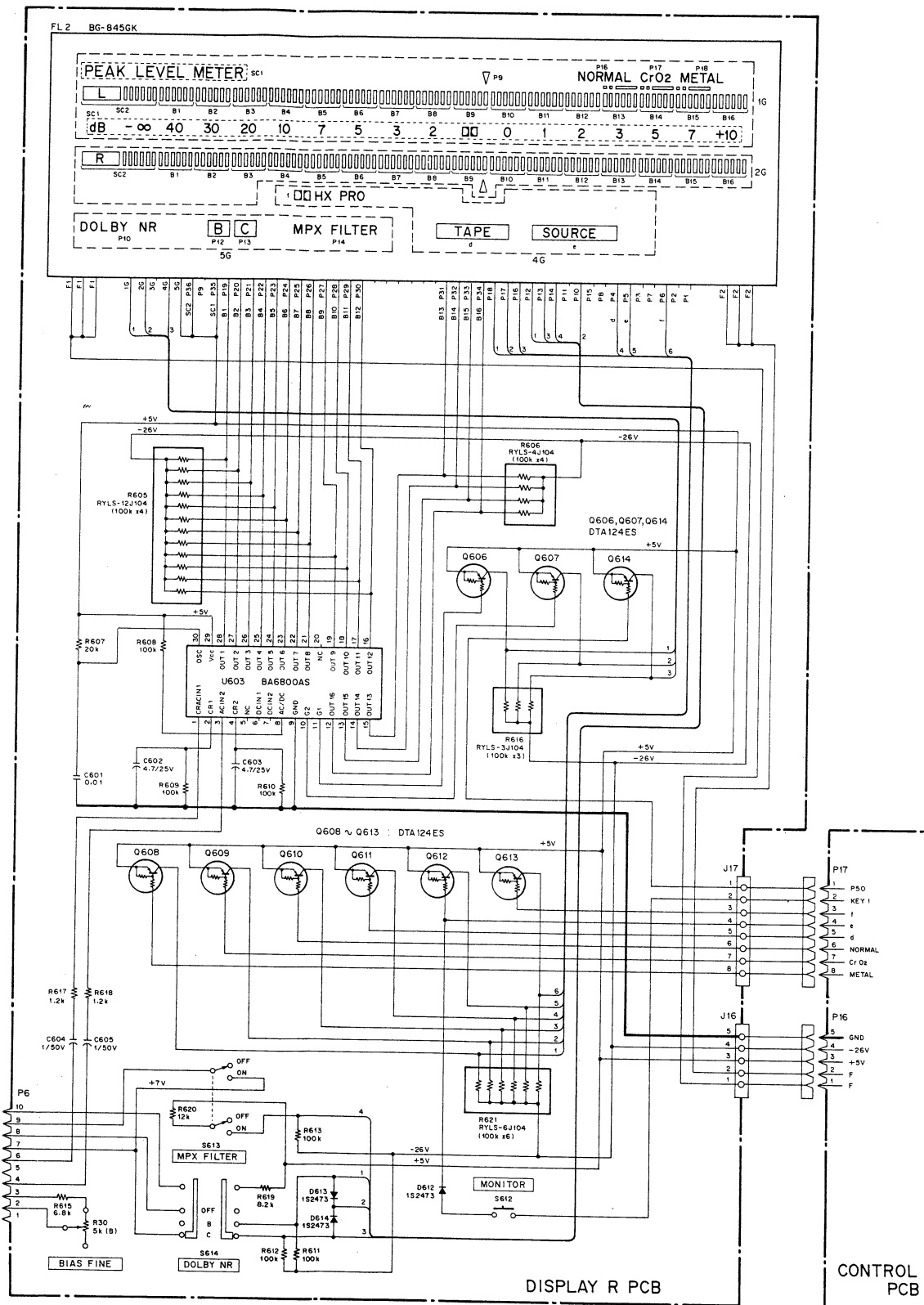
1. Resistor values are in ohms (k=kilo-ohms, M=megohms).
2. Capacitor values are in microfarads (p=picofarads).
3.  $\Delta$  Parts marked with this sign are safety critical components. They must always be replaced with identical components-refer to the appropriate parts list and ensure exact replacement.

注意

1. 抵抗の単位はΩ ( $k = k\Omega$ ,  $M = M\Omega$ )です。
2. コンデンサの単位はμF ( $p = pF$ )です。
3. △マークのある部品は安全重要部品です。  
交換するときは必ずティアック指定の部品を使用してください。



MAIN PCB



DISPLAY R PCB

CONTROL PCB

## NOTES

1. Resistor values are in ohms (k=kilo-ohms, M=megohms).
2. Capacitor values are in microfarads (p=picofarads).
3. ΔParts marked with this sign are safety critical components. They must always be replaced with identical components-refer to the appropriate parts list and ensure exact replacement.

## 注意

1. 抵抗の単位はΩ (k=kΩ, M=MΩ)です。
2. コンデンサの単位はμF (p=pF)です。
3. Δマークのある部品は安全重要部品です。交換するときは必ずディアップ指定の部品を使用してください。

Stereo Cassette Deck

V-3000

2nd Issue ; December 1990

EXPLODED VIEW-3

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
3- 1	*5761837700	PCB BASE BLK F567-110	
3- 2	*5761749100	B5B-EH UY15B-14	
3- 3	*5761749300	B3B-EH UY15B-12	
3- 4	*5761769600	B7B-EH UY15B-16	
3- 5	*5761843100	WIRE, JUMP WGBK-10	
3- 6	*5761843000	GP2S04B AZ13A-00	
3- 7	*5761837900	WIRE, JUMP WG46V-06D	
3- 8	*5761842900	RELAY PLATE FP17E-11A	
3- 9	*5761748700	SW., PUSH UE16E-11	
3-10	5761837600	MTR MAIN BLK F525-S279	
3-11	5761769200	BELT, MAIN FR15R-11	
3-12	*5761690900	SCREW, WAVE 2.6X8 UG12H-14	
3-13	*5761769300	SCREW, BIND S M2.6X23.5 UG17H-11	
3-14	*5761768900	F/W BKT FC47D-13	
3-15	*5761838200	SCREW, MOTOR BRACKET UG12W-12	
3-16	*5761747700	SPACER UJ13L-11	
3-17	5761749500	PACK DETECT LEVER PD38T-12	
3-18	5761837300	REC DETECT LEVER FD38S-21	
3-19	5761842800	METAL DETECT LEVER FD38U-12	
3-20	*5761750200	SPRING, CASSETTE PRESS FC40N-32	
3-21	5761837500	MTR REEL BLK F564-258	
3-22	5761746300	PIN, SOLENOID PL366-11	
3-23	5761836800	SOLENOID BLK F765-251	
3-24	*5761768800	PLAY ARM SPRING FK22G-14	
3-25	*5761769000	PLAY ARM(F) FD38M-22	
3-26	*5761836300	SCREW, WAVE 2X15 UG17L-11	
3-27	5761837200	CAM GEAR(F) FD38P-18	
3-28	5761837400	ASSY F/W FR18M-41B	
3-29	*5761689200	POLYSLIDER FJ111-30	
3-30	*5761745400	SPRING, HOLD FK22E-11	
3-31	5761837100	IDLER ASSY F517-047	
3-32	*5761836600	HOLD LEVER(C) FD35T-12	
3-33	*5761745900	SCREW, PAN SW 2.6X6ZN FG114-20	
3-34	*5761768600	EJECT SAFETY SPRING(L) FK22P-16	
3-35	*5761768500	EJECT SAFETY ARM(L) FC39S-33	
3-36	*5761837000	SCREW UG15S-11A	
3-37	5761836700	REEL BASE BLK F625-129	
3-38	*5761745600	POLYSLIDER FJ111-17	
3-39	*5761745500	POLYSLIDER UJ12V-11	
3-40	5761792500	REEL BASE, BLK L.F623-037	
3-41	*5761836500	WASHER OIL SEAL FJ141-11A	
3-42	*5761836900	CHASSIS BASEBLK F612-110	
3-43	*5761769800	SCREW PAN SW 2.6X4 ZN FG114-15	
3-44	5761836400	PINCH ROLLER ASSY FR20L-21A	
3-45	*5761836100	HEAD BASE FC38N-D4	
3-46	*5761836200	SPRING, HEAD BASE FK22L-11A	
3-47	*5761836000	3 HEAD SPACER FD44N-12	
3-48	*5761767500	SPRING, AZIMUTH FK21U-11	
3-49	5761767900	HEAD, ERASE FU192-11 V-670	
3-50	*5761767400	F LOCK SCREW FG137-18	
3-51	*5761835900	WIRE CONNECT. WH58M-03	
3-52	*5761770300	WIRE CONNECT. WH51L-05	
3-53	5761770200	HEAD, R/P H-2371	
3-54	*5761838100	WIRE CONNECT. WH58N-03	
3-55	*5761838000	CUSHION, MOTOR FJ115-12	

INCLUDED ACCESSORIES

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
	*5700126200	OWNER'S MANUAL [J]	
	*5700126300	OWNER'S MANUAL (E)	
	*5700126400	OWNER'S MANUAL (M)	
	*5744080200	REMOTE CONTROL UNIT RC-393	
	*5347006900	BATTERY, J	
	*5347007000	BATTERY, EXCEPT/J	
	*5350014500	PINPLUG CORD	

[J]:JAPAN [US]:U.S.A. [C]:CANADA [GE]:GENERAL EXPORT  
[E]:EUROPE [UK]:U.K. [A]:AUSTRALIA

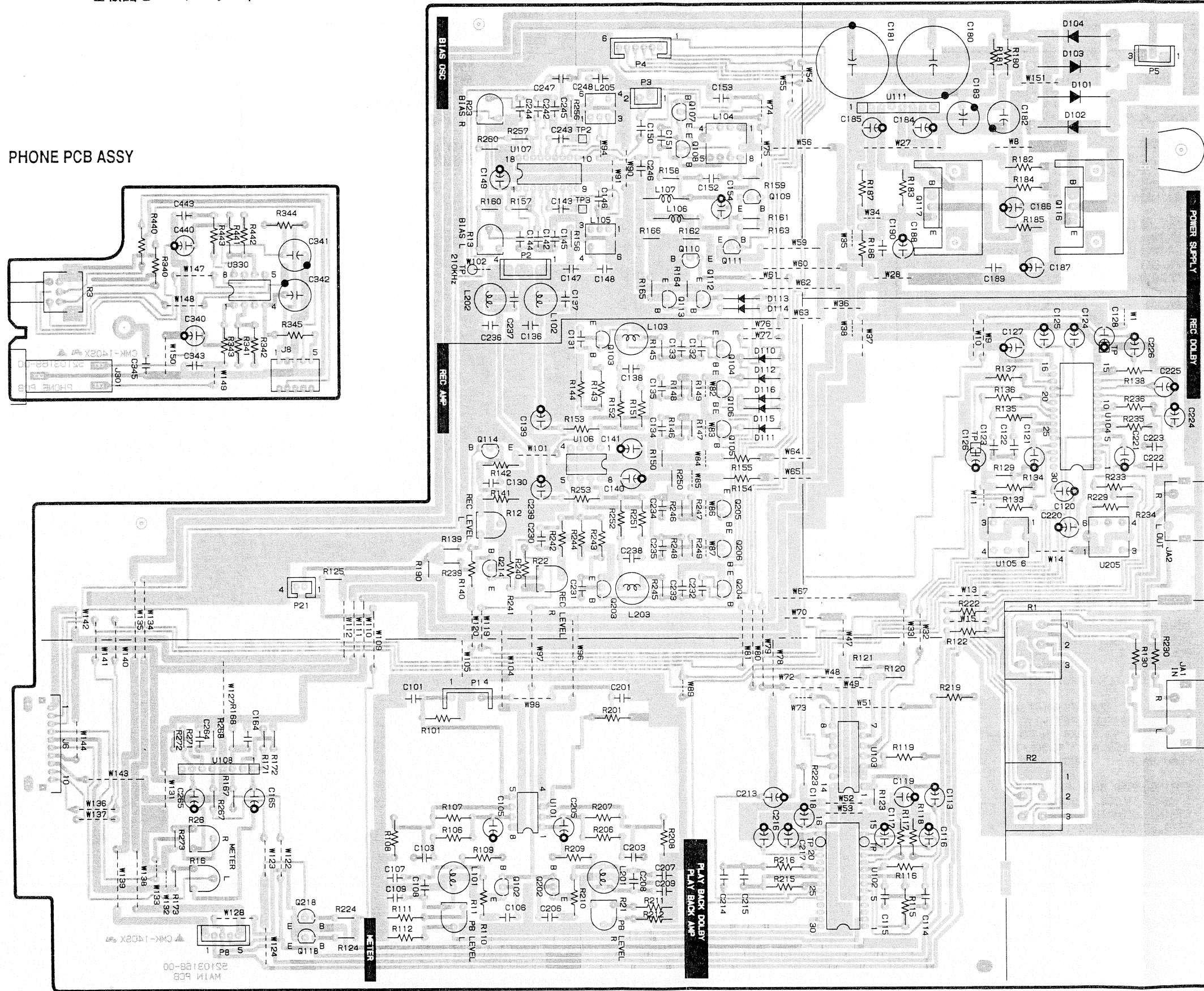
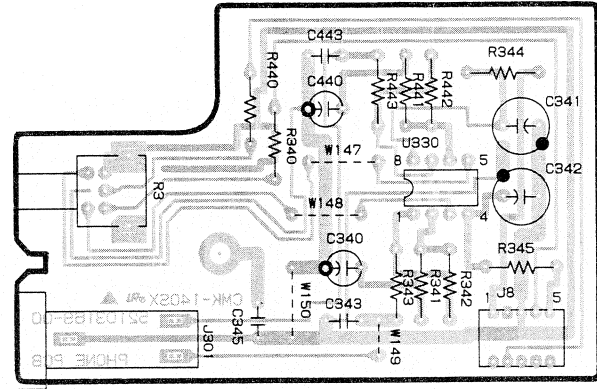
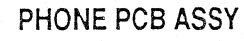
Parts marked with \*require longer delivery time.



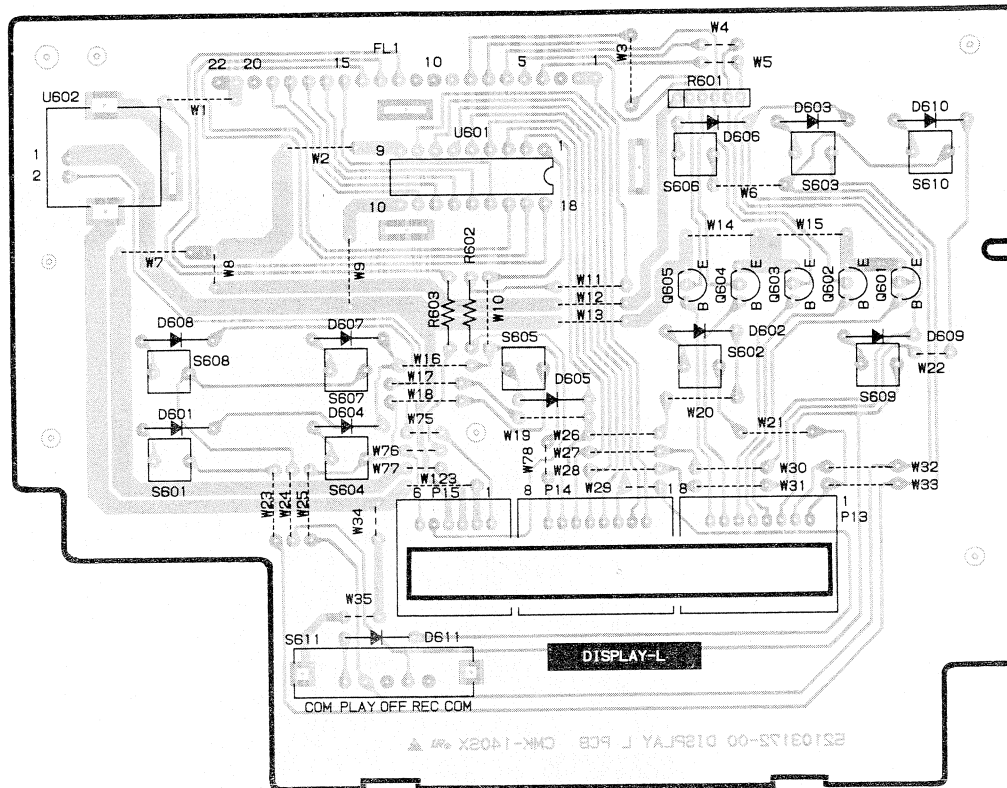
## 8 PC BOARDS AND PARTS LIST

## 基板図とパーツ・リスト

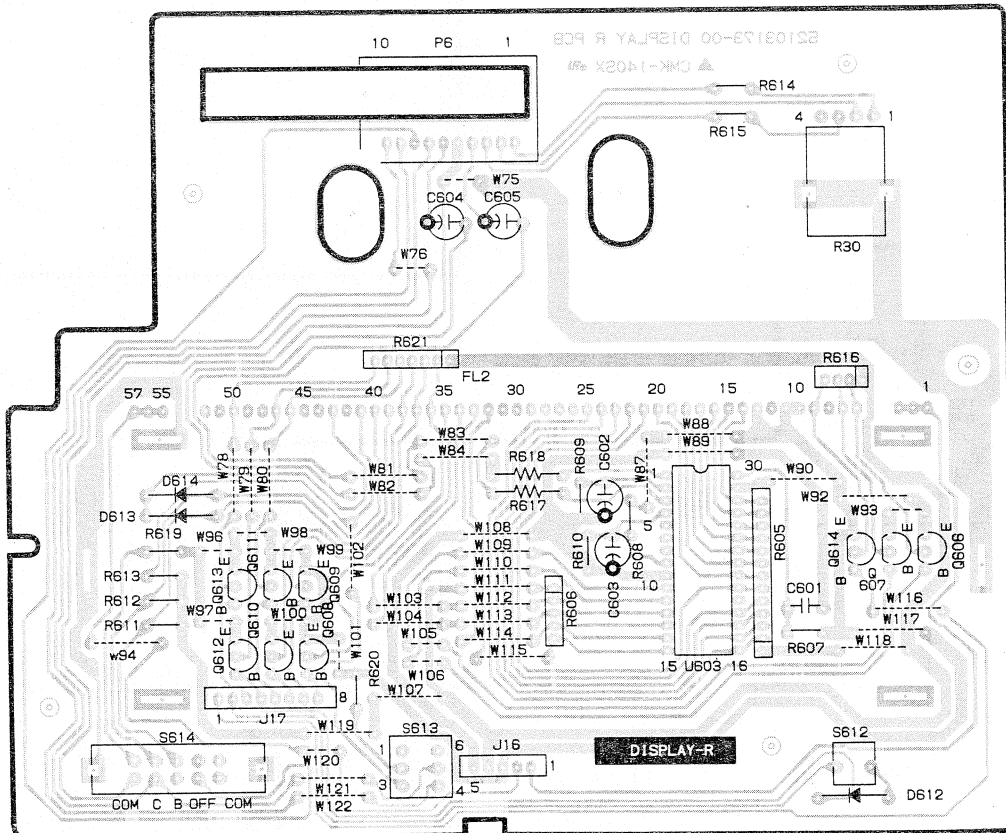
MAIN PCB ASSY



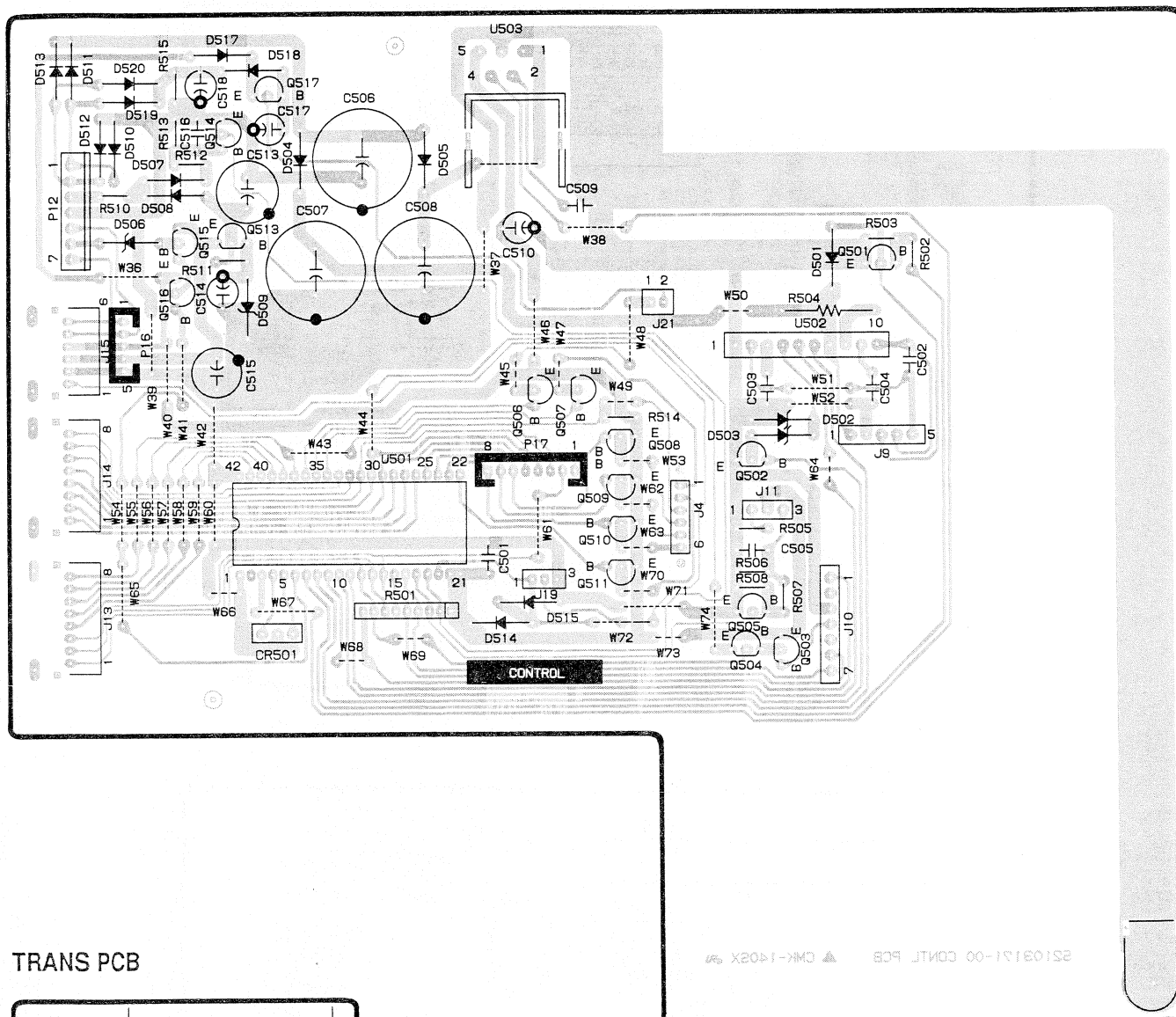
## DISPLAY L PCB ASSY



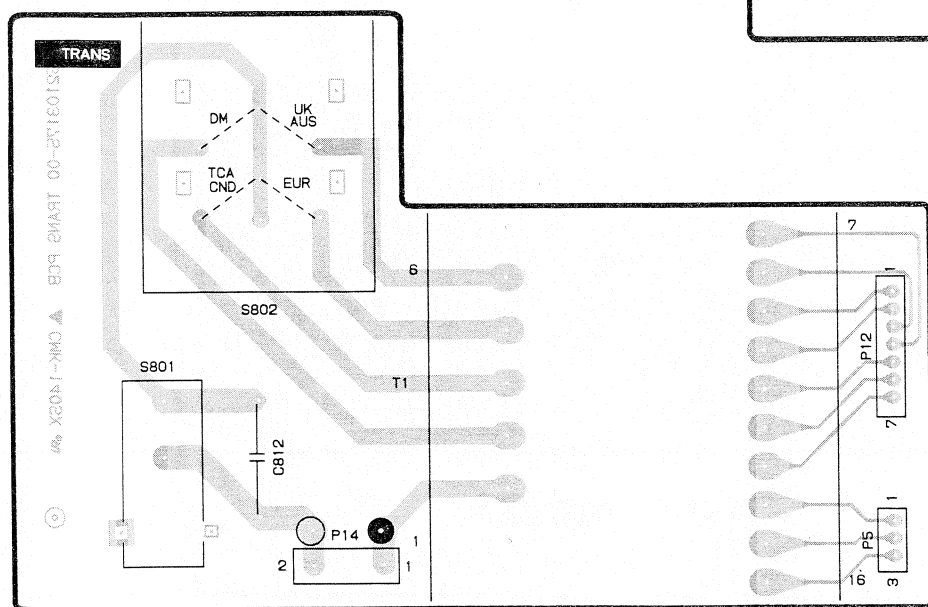
## DISPLAY R PCB ASSY



## CONTROL PCB ASSY



## TRANS PCB





## MAIN PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200316800	MAIN PCB ASSY
	*5210316800	MAIN PCB
	5730039200	HEAT SINK OSH-2425-SPL
	5783033008	SCREW,BIND S TITE M3X8
	5555590000	EARTH PLATE(A)
	5801406300	BRACKET, VR
C101 C201	5263106220	C.,POLY. 220PF 100V J VT
C108 C208	5267012820	C.,CERAMIC 22PF 50V J VFT
C129 C229	5263106220	C.,POLY. 220PF 100V J VT
C130 C230	5263106220	C.,POLY. 220PF 100V J VT
C136 C236	5263106020	C.,POLY. 180PF 100V J VT
C145 C245	5263107220	C.,POLY. 560PF/100V J VT
C147 C247	5263105420	C.,POLY. 100PF/100V J VT
C148 C248	5263107120	C.,POLY. 510PF 100V J VT
C150	5172200000	C.,CERAMIC 10PF/50V T
C152	5263101720	C.,P. 0.0033MF/100V J VT
C153	5263101320	C.,POLY..0022UF 100V J VT
C164 C264	5172222000	C.,CERAMIC 680PF/50V T
C180 C181	5260476910	C.,ELEC 3300UF 25V M PZ VF
C189,C190	5173434000	C.,CERAMIC 0.022MF 50V
D101-D104	5224018200	DIODE 30D2FC
D110-D116	5224012920	DIODE 1S2473
J6	5334073700	SOCKET,CONNECT.10P TKC-B
JA1 ,JA2	5330511800	PIN JACK 2P YKC21-0210
L101 L201	5286041420	CHOKE COIL 27.0MH VT
L102 L202	5286041420	CHOKE COIL 27.0MH VT
L103 L203	5286040820	CHOKE COIL 8.2MH VT
L104	5286042000	OSC COIL
L105 L205	5286041800	STEP UP COIL
L106,L107	5286031000	COIL,CHOKE 220UH LAL04KB
P1 ,P2	5336245400	PLUG,CONNECT.B04B-XH-A
P3	5336245200	PLUG,CONNECT.B02B-XH-A
P4	5336249600	PLUG,CONNECT.B06B-PH-K-S WHT
P5	5336303300	PLUG,CONNECT.B3B-EH WHT
P8	5336279500	PLUG,CONNECT.1L-SDD- 5P-S2T
P21	5336249200	PLUG,CONNECT. WHT
Q102 Q202	5232255720	TRANSISTOR DIGI. DTC124ES
Q103 Q203	5232255720	TRANSISTOR DIGI. DTC124ES
Q104 Q204	5232255720	TRANSISTOR DIGI. DTC124ES
Q105 Q205	5232255720	TRANSISTOR DIGI. DTC124ES
Q106 Q206	5232255720	TRANSISTOR DIGI. DTC124ES
Q107,Q108	5230782320	TRANSISTOR JC 501 Q
Q108	5230782320	TRANSISTOR JC 501 Q
Q109	5230019020	TRANSISTOR 2SA933SLV
Q110	5230782320	TRANSISTOR JC 501 Q
Q111,Q113	5232255720	TRANSISTOR DIGI. DTC124ES
Q114 Q214	5231762020	TRANSISTOR 2SD1450S/T 0.3
Q116	5231762800	TRANSISTOR 2SD1913R
Q117	5230509700	TRANSISTOR 2SB1274R
R1	5282417800	IS2UVR 16 100KMN
R2	5282417600	IS2UVR 16 20K X2
R11 R21	5280021100	R.,TRIMMER 4.7KB
R12 R22	5280021100	R.,TRIMMER 4.7KB
R13 R23	5280021300	R.,TRIMMER 10KB H.
R16 R26	5280021100	R.,TRIMMER 4.7KB

## MAIN PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
U101	5220426900	IC.,M5220P
U102	5220444700	IC.,CXA1330S
U103	5220041100	IC.,BU4066B
U104	5220444700	IC.,CXA1330S
U105 U205	5292810000	L.P.FILTER MPX
U106	5220418800	IC.,M5218P
U107	5220430400	IC.,UPC1297CA
U108	5220440600	IC.,NJM4565L
U111	5220425800	IC.,M5230LA

## PHONE PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200316900	PHONE PCB ASSY
	*5210316900	PHONE PCB
C343 C443	5173433000	C.,CERAMIC 0.01UF 50V T
C345	5173433000	C.,CERAMIC 0.01UF 50V T
J301	5330016600	JACK,3P FJ333DAB-Z
J8	5336281500	SOCKET,CONNECT.1L-SDD- 5S-S2L2
R3	5282417900	IS2UVR 9 20KAX2
U330	5220418800	IC.,M5218P

Parts marked with \*require longer delivery time.

## DISPLAY L PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200317200	DISPLAY L PCB ASSY
	*5210317200	DISPLAY L PCB
	5801408200	FL HOLDER(B)
D601-D611	5224012920	DIODE,1S2473
FL1	5347017900	FL COUNTER 5-BT-121GK
P13, P14	5334074000	PLUG,CONNECTOR 8P TKC-B
P15	5334073800	PLUG,CONNECTOR 6P TKC-B
Q601-Q605	5232254820	TRANSISTOR DIGI. DTA124ES
R601	5242125500	R.,ARRAY RYLS-5J104
R602 R603	5181978000	R.,INCOMBUSTIBLE F50 150HM J
S601-S610	5302108600	SW.,TACT SKHVBE
S611	5300916400	SW.,SLIDE 1-3 SSSU01
U601	5232253300	TRANSISTOR ARRAY LB1240
U602	5292209500	MODULE,REM.CONTROL SBX1483-52

## DISPLAY R PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200317300	DISPLAY R PCB ASSY
	*5210317300	DISPLAY R PCB
	5801408100	FL HOLDER(A)
D612-614	5224012920	DIODE,1S2473
FL2	5347017800	FL METER BG-845GK
P6	5334074200	PLUG,CONNECTOR 10P TKC-B
Q606-614	5232254820	TRANSISTOR DIGI. DTA124ES
R30	5282022800	ISIUVR 11 5KB
R605	5242126100	R.,ARRAY RYLS-12J104
R606	5242125400	R.,ARRAY RYLS-4J104
R607	5240550820	R.,CARBON ERD-A3TJ 20KOHM
R616	5242125300	R.,ARRAY RYLS-3J104
R621	5242125600	R.,ARRAY RYLS-6J104
S612	5302108600	SW.,TACT SKHVBE
S613	5300055300	PUSH SW 2-2 SPEC
S614	5300916900	SW.,SLIDE 2-3
U603	5220443400	IC.,BA6800AS

## CONTROL PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200317100	CONTROL PCB ASSY
	*5210317100	CONTROL PCB
	5555590000	EARTH PLATE(A)
	5800990100	HEAT SINK
C501	5173434000	C.,CERAMIC 0.022MF 50V
C502	5267020420	C.,CERAMIC 0.1UF 50V Z VT
C503-C505	5173433000	C.,CERAMIC 0.01UF 50V T
C506,C508	5260466210	C.,ELEC 2200UF 25V M AU VF
C507	5260467310	C.,ELEC 4700UF 25V M AU VF
C509	5172224000	C.,CERAMIC 1000PF/50V T
C513	5260464610	E.,ELEC 330UF 50V M AU VF
C514	5260461420	C.,ELEC 4.7UF 50V M AU VT
C515	5260463320	C.,ELEC 100UF 35V M AU VT
C516	5173435000	C.,CERAMIC 0.047UF 50V Z
CR501	5347017700	OSC,EFO-GC4194A4
D501	5224017120	DIODE,1SR139-200 T-31
D502	5224574501	DIODE,ZENER RD7.5EL3 FR
D503	5224572201	DIODE,ZENER RD3.6EL2 FR
D504,D505	5224017120	DIODE,1SR139-200 T-31
D506	5224573201	DIODE,ZENER RD5.1EL2 FR
D507	5224012920	DIODE,1S2473
D508	5224017120	DIODE,1SR139-200 T-31
D509	5224579401	DIODE,ZENER RD33EL1 FR
D510-D513	5224017120	DIODE,1SR139-200 T-31
J13 ,J14	5334073500	CONN. SOCKET 8P TKC-B
J15	5334073300	CONN. SOCKET 6P TKC-B
P12	5336303700	PLUG,CONNECTOR B7B-EH (WHT)
P16	5336249500	PLUG,CONNECT.B05B-PH-K-S WHT
P17	5336249800	PLUG,CONNECT.WHT
Q501	5231761300	TRANSISTOR 2SD734F 0.6 250
Q502,Q504	5232255720	TRANSISTOR DIGI. DTC124ES
Q503	5232254820	TRANSISTOR DIGI. DTA124ES
Q505	5230782320	TRANSISTOR JC 501 Q
Q506-Q511	5232254820	TRANSISTOR DIGI. DTA124ES
Q513	5145085000	TRANSISTOR 2SA-934R 0.75 150
Q514	5230782320	TRANSISTOR JC 501 Q
Q515	5232255720	TRANSISTOR DIGI. DTC124ES
Q516	5232254820	TRANSISTOR DIGI. DTA124ES
R501	5242123300	R.,ARRAY RYLS-8J223
R502	5240547720	CARBON ERD-A3TJ 1.0KOHM
R504	5241274510	R.,INCOMBUSTIBLE 1W 470HM J
U501	5220824200	UCOM.,UPD75004CW-074
U502	5220444900	IC.,BA6219
U503	5220430300	IC.,L78MR05

Parts marked with \*require longer delivery time.

## TRANS PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200317500	TRANS PCB ASSY [J]
	*5200317510	TRANS PCB ASSY [US,C]
	*5200317520	TRANS PCB ASSY [GE]
	*5200317530	TRANS PCB ASSY [E]
	*5200317540	TRANS PCB ASSY [UK]
	*5200317550	TRANS PCB ASSY [A]
	*5210317500	TRANS PCB
	△ 5327009200	LAPPING,TERMINAL 2P [E,UK,A]
	△ 5350015600	CORD,AC [J]
	△ 5350010700	CORD,AC UL SPT-2 [US,C]
	△ 5350010800	CORD,AC UL SPT-1 [GE]
	△ 5350011700	CORD,AC CEE CLASS-2 [E]
	△ 5128047000	CORD,AC [UK]
	5350008300	CORD,AC SAA 2-LEAD [A]
C812	△ 5267704000	SPARK,KILLER 0.0047UF250V
S801	△ 5300054700	SW.,PUSH SDDL 1-1
S802	△ 5332027700	VOLTAGE CONVERSION
		1-4 FS908F [GE]
T1	△ 5320060000	POWER TRANS

[J]:JAPAN [US]:U.S.A. [C]:CANADA [GE]:GENERAL EXPORT  
[E]:EUROPE [UK]:U.K. [A]:AUSTRALIA

Parts marked with \*require longer delivery time.